PROCEEDINGS

OF THE

MADRAS GOVERNMENT

IN THE

PUBLIC WORKS DEPARTMENT,

FOR THE

MONTH OF JANUARY

1864.

PRINTED BY AUTHORITY.

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1864.

PUBLIC WORKS DEPARTMENT.

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186&187	Proceedings of the Superintending Engineer, 7th Division, directing Mr. Shannon to join the Neilgherry Range, Coimbatore District, approved, and the above Officer informed that the rank of the Subordinate in question is that of Táluq Overseer.	11th Jan. No. 90.	....	18th June 1863, Nos. 435—441. 22nd Dec. 1863, Nos. 565, 566.	66
188&189	Superintending Engineer, 1st Division, requested to make such arrangements as may be necessary to ensure the vigorous prosecution of the Central Jail at Rajahmundry, Godavery District.	11th Jan. No. 91.	....	29th Aug. 1863, Nos. 694, 695.	67
190&191	Letter from the Superintending Engineer, 8th Division, giving the details of the Establishments sanctioned for the Paumben Workshop, Madura District, recorded.	11th Jan. No. 92.	....	23rd June 1863, No. 536.	Ibid
192&193	Rupees 2,300 required to complete the Kunderu bridge in the Kurnool District authorized to be met from the Reserve of 1863-64.	11th Jan. No. 93.	....	24th Feb. 1855, No. 91. 12th Dec. 1860, Nos. 173, 174. 6th March 1862, Nos. 57, 58. 11th Aug. 1862, Nos. 134, 135.	68
194&195	Bill amounting to Rupees 408-2-3 for charges incurred in removing the stores, machinery, &c., of the late District Engineer's Office, North Arcot, from Ranepet to the Presidency, authorized to be disbursed from the sum of Rupees 22,000 set apart in 1863-64 on account of India freight, landing, &c., charges.	11th Jan. No. 94.	....	6th Nov. 1863, Nos. 132, 133.	68 & 69
196&197	Endorsement of the Government of India, forwarding copy of their Proceedings on the subject of the disposal of arrear accounts of the Public Works Department, recorded.	11th Jan. No. 95.	....	None.	69 to 71
198&199	Controller of Public Works Accounts authorized to pass certain Bills for works executed in the Madura District.	11th Jan. No. 96.	....	25th July 1863, No. 693.	72
200&201	Superintending Engineer, 8th Division, requested to submit Estimates for all such Salt roads as in his own or the Collector of Madura's opinion may be required, leaving the question of supplying funds for the disposal of Government.	11th Jan. No. 97.	....	12th Dec. 1863, Nos. 323, 324.	Ibid
202&203	Letter from the Quarter Master General, submitting a supplementary list of original works in Trichinopoly to be included in the Budget of 1864-65, or for execution from the Reserve, communicated to the Superintending Engineer, 1st Division, for the submission of Estimates.	11th Jan. No. 98.	....	26th Sept. 1863, Nos. 579, 580.	73

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
204&205	Superintending Engineer, 7th Divison, informed, with reference to the entry in the Budget of maintenance grant, that each road must be entered separately with its length in miles, and the sum proposed to be spent on its maintenance.	11th Jan. No. 99.	....	14th Nov. 1863, Nos. 314, 315.	73 & 74
206&207	Memorandum from the Government of India forwarding a list of Officers of the Public Works Department who draw Presidency house rent, communicated to the Controller of Public Works Accounts.	12th Jan. No. 100.	....	7th Dec. 1863, Nos. 163, 164.	75
208&209	Orders on the subject of transferring to the Madras Irrigation and Canal Company the public buildings and stores at Nellore belonging to the Public Works Department, deferred to be passed.	12th Jan. No. 101.	....	10th Aug. 1863, Nos. 188, 189.	76
210& 211	Superintending Engineer, 3rd Division, requested to submit an Estimate of the cost of sinking four additional wells in the Cantonment of Bellary, proceeding with the work in the meanwhile.	12th Jan. No. 102.	....	19th June 1862, Nos. 350, 351. 8th Dec. 1863, Nos. 200, 201.	Ibid
212&213	Superintending Engineer, 8th Division, requesting to report the name of the party who may be appointed to act as Táluq Overseer in lieu of Mr. Telford who has resigned.	12th Jan. No. 103.	....	None.	77
214&215	Proceedings Board of Revenue, submitting letter from the Collector of North Arcot, furnishing the information called for, regarding the works of Irrigation which were in a state of disrepair, communicated to the Superintending Engineer, 4th Division, for such remarks as he may wish to offer on the Collector's representation.	12th Jan. No. 104.	....	18th Sept. 1863, Nos. 399, 400.	77 & 78
216&217	Recommendation of the Superintending Engineer, 7th Division, that permission be granted for the employment of Mr. Supervisor McDonough under the orders of Lieutenant Trail in charge of the Coimbatore Jail works, until such time as his health shall be sufficiently restored to permit of his taking charge of a Range, acceded to.	12th Jan. No. 105.	....	None.	78 & 79
218&219	Letter from the Superintending Engineer, 4th Division, stating that the 12-horse (nominal power) Pumping Engine referred to in G. O. No. 1,564 of 1862, will not be required, recorded.	12th Jan. No. 106.	....	4th July 1863, Nos. 86, 87.	79

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
220&221	Proceedings Revenue Department acceding to the recommendation of the Board of Revenue that the Collector of Ganjam be permitted to pay to the Zemindar of Dharacottah Rupees 1,900 as compensation for 47½ Acres of wet land taken up in his Zemindary for the Berhampore and Russelcondah road, communicated to the Superintending Engineer, 1st Division.	12th Jan. No. 107	....	None.	79
222&223	Paragraph 3 of the Despatch from the Home Government noticing with satisfaction the report of the Consulting Engineer Irrigation and Canal Company submitted with Despatch No. 54 on the result of an inspection of the Company's works, communicated to that Officer. Pargaraph 4 of the same declining to interfere in the case of D. Bramanandum, late Accountant in the Kistna District, communicated to the Superintending Engineer, 2nd Division, for intimation to the party concerned.	12th Jan. No. 108.	....	25th July 1863, Nos. 675, 676.	79 & 80
224&225	Proceedings Educational Department sanctioning the Estimate of Rupees 38 for certain emergent repairs to the Táluq School at Darampuri, Salem District, communicated to the Superintending Engineer, 5th Division.	12th Jan. No. 109.	....	None.	80
226&227	Controller of Public Works Accounts authorized to pass the expenditure of Rupees 32,952 incurred during 1862-63 on certain roads in the Tanjore District.	12th Jan. No. 110.	....	6th Feb. 1863, Nos. 108—110.	Ibid
228&229	Proceedings Financial Department forwarding letter from the Accountant General requesting the speedy submission of the Local Fund Budget for 1864-65, communicated to the Superintending Engineers and the Controller of Public Works Accounts.	12th Jan. No. 111.	....	27th July 1863, No. 722.	81
230&231	Proceedings Military Department approving of the Estimate of Rupees 1,605 for repairing the Arsenal at Vizagapatam, communicated to the Superintending Engineer, 1st Division.	12th Jan. No. 112.	....	None.	Ibid
232&233	Estimates amounting to Rupees 690 for constructing a new sluice to the Darapuram Vadamanery tanks in the Salem District, sanctioned.	12th Jan. No. 113.	....	7th Sept. 1863, Nos. 108, 109. 13th Nov. 1863, Nos. 253, 254. 7th Dec. 1863, Nos. 147, 148.	Ibid

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
234& 235	Superintending Engineer, 6th Division, requested to commence with the work of providing two wards in the old Jail at Trichinopoly for the reception of Lunatics and Deputy Auditor and Accountant General requested to arrange for the transfer of Rupees 2,000 from the Reserve for contingencies under "F. IX Miscellaneous," to the Public Works Budget.	13th Jan. No. 114.	....	None.	82
236& 237	Permission granted for appropriating as proposed by the Superintending Engineer, 2nd Division, a sum of Rupees 8,870 of the surplus allotment for Nellore tank.	13th Jan. No. 115.	....	14th Dec. 1863, Nos. 346, 347.	82 & 83
238& 239	Letter from the Dy. Adjutant General Royal Engineers, London, intimating that Lieutenants C. Cunningham and A. C. Smith will embark for Madras on the 20th November 1863, and requesting the return of the enclosed documents after being signed by them, with orders thereon.	13th Jan. No. 116.	....	None.	83
240	Returns relative to the appointment of Lieutenants C. Cunningham, A. C. Smith, Royal Engineers, for duty in the Madras Presidency forwarded to the Deputy Adjutant General Royal Engineers, London, with an intimation that the required information has been duly entered therein.	13th Jan. No. 117.	....	None.	Ibid
241& 242	Copy of the Advertisement in regard to the lease of a site for a first class Hotel proposed to be built on the Esplanade of Bombay forwarded to the Superintendent Government Gazette Press, and the Proprietors of the "Madras Athenæum" and "Times" for publication.	13th Jan. No. 118.	....	None.	84
243& 244	Superintending Engineer, 4th Division, informed that application has been already made to the Home Government for the early despatch of the articles required for the proposed Water Works at Guindy, Madras District.	13th Jan. No. 119.	....	4th Dec. 1863, Nos. 112—113	Ibid
245& 246	Proceedings Military Department approving for entry in the Budget of 1864-65 of the Estimates aggregating to Rupees 85,100 for certain Military buildings at the Horse Artillery Lines at Saint Thomas' Mount, Madras District, communicated to the Superintending Engineer, 4th Division.	13th Jan. No. 120.	....	None.	Ibid

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
247&248	Proceedings Educational Department sanctioning the Estimate of Rupees 260 for certain repairs to the Zillah School house at Cuddapah, communicated to the Superintending Engineer, 3rd Division.	13th Jan. No. 121.	....	None.	85
249&250	Estimate of Rupees 29,512 prepared by the Civil Engineer to the Municipal Commissioners for the Town of Madras for enclosing the Town Esplanades, sanctioned for entry in the Budget of 1864-65.	13th Jan. No. 122.	....	None.	85 & 86
251&252	Proceedings Military Department approving of the Plan and Estimate for the proposed new School room at Cannanore, Malabar District, communicated to the Superintending Engineer, 7th Division.	13th Jan. No. 123.	....	30th Sept. 1863, Nos. 682, 683.	86
253&254	Letter from the Post Master General forwarding copy of one from the Superintending Engineer, 2nd Division, on the condition of the Trunk Road No. 6, south of Nellore, recorded.	13th Jan. No. 124.	....	18th Jan. 1864, Nos. 356, 357.	86 & 87
255&256	Superintending Engineer, 5th Division, requested to report whether any portion of the current year's funds assigned for works in the Districts within his Range can be spared for extending the advantages of the Trevanellore Anicut to the lands on the northern bank of the Penniar.	13th Jan. No. 125.	....	7th July 1862, Nos. 124, 125. 8th May 1863, Nos. 136, 137.	87 to 89
257&258	Letter from the Controller of Public Works Accounts submitting the explanation called for in the Proceedings of Government reviewing the Appropriation Return for June 1863, with orders thereon.	13th Jan. No. 126.	....	19th Dec. 1863, Nos. 492, 493. 19th Dec. 1863, Nos. 494, 496.	89 & 90
259	Papers relative to the proposal made by the Chairman of the Indian Tramway Company for the construction of certain lines of light Railway in the Madras Presidency, forwarded to the Government of India.	13th Jan. No. 127.	....	4th Jan. 1864, Nos. 22—24.	90 & 91
260&261	Request of the Consulting Engineer Irrigation and Canal Company that permission be granted for the purchase of four small wooden boxes estimated to cost Rupees 24 required for the security of his Office records, &c., while on tour of inspection acceded to.	15th Jan. No. 128.	....	None.	91 & 92
262&263	Superintending Engineer, 7th Division, requested to bring forward after 1st May next the Estimates for a Lock Hospital at Ootacamund, &c., Coimbatore District which have now been sanctioned for the provision of the necessary funds.	15th Jan. No. 129.	....	7th Dec. 1863, Nos. 145, 146.	92

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
264&265	Letter from the Controller of Public Works Accounts submitting with his remarks, one from the Superintending Engineer, 2nd Division, relative to appropriations made for "Repairs," to lie over.	15th Jan. No. 130.	....	19th Dec. 1863, Nos. 494—496	92
266&267	Proceedings Military Department, approving of the Plan and Estimate of Rupees 13,130 for putting the sea face of Fort Saint George, Presidency District, into a more perfect state of defence, communicated to the Superintending Engineer, 4th Division.	15th Jan. No. 131.	....	1st July 1863, Nos. 10, 11. 23rd Oct. 1863, Nos. 497, 498.	93
268&269	Letter from the Superintending Engineer, 4th Division, forwarding plans of the Beer and Arrack Godowns at Saint Thomas' Mount and Poonamallee, Madras District, recorded.	15th Jan. No. 132.	....	29th Oct. 1863, Nos. 655, 656.	Ibid
270&271	Revised Estimate of Rupees 10,420 for a new road from the north bank of the Coleroon river to Woodiarpolliem, Tanjore District, sanctioned for entry in the Budget of 1864-65.	15th Jan. No. 133.	....	23rd Nov. 1857, Nos. 80—118. 26th Sept. 1863, Nos. 587, 588.	Ibid
272&273	Estimate of Rupees 6,139 for the Cuddumbella bridge, South Canara District, sanctioned from the Reserve.	15th Jan. No. 134.	....	25th Aug. 1863, Nos. 518, 519.	94
274&275	Proceedings Public Department, sanctioning the acceptance by the Committee People's Park of Swamy Chetty offer of his land, viz., forty Grounds in the Park for ninety Grounds of waste land on the east side of Cochrane's Canal as it now stands with the debris upon it, communicated to the Superintending Engineer, 4th Division.	15th Jan. No. 135.	....	None.	Ibid
276&277	Superintending Engineer, 7th Division, requested to report the measures which should, in his opinion, be adopted to improve the supply of water for the use of the Troops at Calicut, Malabar District, and to submit the necessary Estimates.	15th Jan. No. 136.	....	None.	Ibid
278&279	Proceedings Revenue Department stating that the Verandah along the west front of the Chepauk buildings occupied by the Board of Revenue, will still be required, and that the Board will be requested to give their opinion on the subject, communicated to the Superintending Engineer, 4th Division.	15th Jan. No. 137.	....	4th Jan. 1864, Nos. 7, 8.	95

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
280&281	Letter from the Collector of Ganjam, stating that, as the sum of Rupees 2,700 spent by him on the Khond Malias was formally placed at his disposal by the Department Public Works, he is not aware of the necessity of any further adjustment, recorded.	15th Jan. No. 138.	....	2nd Dec. 1863, Nos. 26, 27.	95
282&283	Proceedings Revenue Department approving of the proposal of the Collector of Tanjore for meeting, from Chuttrum Funds, the Estimate of Rupees 10,780 for raising a dam across the Pennair, &c., communicated to the Superintending Engineer, 6th Division.	15th Jan. No. 139.	....	None.	Ibid
284&285	Proceedings Military Department approving, for execution, of the Estimate of Rupees 5,880 for two Wash-houses for the D. Battery, Royal Horse Brigade, stationed at Bellary, communicated to the Superintending Engineer, 3rd Division.	15th Jan. No. 140.	....	10th Aug. 1863, Nos. 172, 173. 14th Dec. 1863, Nos. 333, 334.	Ibid
286&287	Proceedings Revenue Department sanctioning the Estimates amounting to Rupees 25,200 and 3,680 respectively, for a new Stamp Office and for certain alterations to the sheds in the Commissariat Timber Depôt, Presidency District, communicated to the Superintending Engineer, 4th Division.	15th Jan. No. 141.	....	None.	96
288&289	Proceedings Revenue Department, sanctioning the Estimate of Rupees 720 for converting one of the four public buildings at Tindivanum into a permanent Office for the Head Assistant Collector of the South Arcot District, communicated to the Superintending Engineer, 5th Division.	15th Jan. No. 142.	....	29th Sept. 1863, Nos. 638, 639.	Ibid
290&291	Proceedings Military Department, approving, for entry in the Budget of 1864-65 of the Estimates for certain Military buildings in Trichinopoly, and stating that the remarks of the Quarter Master General regarding the Family Quarters for the Battery of Artillery at that station will receive attention in the Department Public Works, communicated to the Superintending Engineer, 6th Division, with a request that, if necessary, a revised Estimate may be submitted for the quarters in question.	15th Jan. No. 143.	....	26th Sept. 1863, Nos. 579, 580. 18th Dec. 1863, Nos. 480, 481.	Ibid

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
292&293	Recommendation of the Superintending Engineer, 2nd Division, that certain works in the Kistna District be done on contract, declined to be acceded to.	15th Jan. No. 144.	....	9th Nov. 1863, Nos. 150, 151. 19th Nov. 1863, Nos. 436, 437. 25th Nov. 1863, Nos. 593, 594. 26th Nov. 1863, Nos. 622, 623. 1st Dec. 1863, Nos. 1, 2.	97
294&295	Request of the Superintending Engineer, 3rd Division, that Rs. 100, expended on account of an Overseer's shed may be sanctioned from the Reserve to admit of the adjustment of the accounts of the Kunder bridge expenditure, Kurnool District, acceded to.	15th Jan. No. 145.	....	18th July 1856, Nos. 39—41. 18th Sept. 1856, Nos. 21—32.	97 & 98
296&297	Recommendation of the Superintending Engineer, 8th Division, that permission be granted for the expenditure on the portion of the road between Pallaputty and Pereacolum, Rupees 2,000, granted for that from Pallaputty to Pereacolum and the Ghát, Madura District, acceded to.	15th Jan. No. 146.	....	24th Aug. 1863, Nos. 476, 477.	98
298&299	Letter from the Superintending Engineer, 6th Division, stating that in Trichinopoly, there are no Beer and Rum godowns worthy of notice, recorded.	15th Jan. No. 147.	....	29th Oct. 1863, Nos. 655, 656.	Ibid
300&301	Letter from the Superintending Engineer, 5th Division, forwarding Plans of the best Commissariat Beer godowns at Bangalore, recorded.	15th Jan. No. 148.	....	29th Oct. 1863, Nos. 655, 656.	99
302&303	Letter from the Superintending Engineer, 7th Division, stating that he has requested the Executive Engineer in charge of the Cannanore Range, Malabar District, to submit revised Estimates for all works that will be affected by the increase of the cost of laterite stone, recorded.	15th Jan. No. 149.	....	None.	Ibid
304&305	Bill of Rupees 206-8-5 for cleaning two Brick-making machines, last used for the Sappers Barracks at Dowlaishweram, Godavery District, sanctioned.	15th Jan. No. 150.	....	None.	Ibid
306&307	Proceedings Military Department, approving of the Estimate of Rs. 146, for correcting the Lightning Conductor of the Magazine at Mangalore, South Canara District, communicated to the Superintending Engineer, 7th Division.	15th Jan. No. 151.	....	3rd Dec. 1863, Nos. 53—60. 5th Jan. 1864, Nos. 27—35.	100

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
308&309	Letter from the Superintending Engineer, 4th Division, submitting with his remarks letter from Sir Macdonald Stephenson on the subject of utilizing the Madras Pier, referred for the opinion of the Superintendent of Marine.	15th Jan. No. 152.	....	4th Jan. 1864, Nos. 25, 26.	100 & 101
310—313	Letter from the Superintending Engineers, 3rd, 4th and 7th Divisions, forwarding Plans of the Arrack and Beer Godowns at Bellary, Presidency and Wellington, with orders thereon.	15th Jan. No. 153.	....	29th Oct. 1863, Nos. 655, 656.	101 & 102
314	Plans of the three most approved existing Rum and Beer godowns in the Madras Presidency, forwarded to the Government of India.	15th Jan. No. 154.	....	Ditto.	102
315&316	Letter from the Deputy Adjutant General, Royal Engineers, London, intimating that Lieutenant E. Harvey will embark on board the "Ripon" for duty in the Madras Presidency, and requesting the return of the enclosed documents after being signed by him, with orders thereon.	15th Jan. No. 155.	....	13th Jan. 1864, Nos. 238—240.	103
317	Returns relative to the appointment of Lieutenant E. Harvey of the Royal Engineers for duty in the Madras Presidency, forwarded to the Deputy Adjutant General Royal Engineers, London, with an intimation that the required information has been duly entered therein.	15th Jan. No. 156.	....	Ditto.	Ibid
318&319	Superintending Engineer, 8th Division, requested to report whether Mr. Wait's services are now required at Paumben, Madura District.	15th Jan. No. 157.	....	23rd June 1863, No. 536. 23rd Dec. 1863, Nos. 589, 590.	Ibid
320&321	Superintending Engineer, 8th Division, authorized to employ Vyapuri Pillay as a Táluq Overseer vice Mr. Telford resigned, until the services of a passed Candidate are available.	15th Jan. No. 158.	....	12th Jan. 1864, Nos. 212, 213.	104
322&323	Letter from the Superintending Engineer, 3rd Division, forwarding the proceedings and verdict of the Court of Inquest held on the body of the 2nd cooly who met with a fatal accident in the Pallampett Táluq of the Cuddapah District, recorded.	16th Jan. No. 159.	....	9th Dec. 1863, Nos. 204, 205.	Ibid
324&325	Estimate of Rupees 16,800 for the restoration of the timber bridge over the Irrity river in the Malabar District, sanctioned.	16th Jan. No. 160.	....	25th Aug. 1863, Nos. 518, 519.	105
326&327	Superintending Engineer, 7th Division, requested to use his best endeavours to prevent delays in the submission of periodical Returns to the Controller of Public Works Accounts.	16th Jan. No. 161.	....	None.	105 & 106

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
328&329	The appropriation recommended by the Superintending Engineer, 7th Division, after consultation with the Collector of Malabar, of the sums of Rupees 25,000 and 13,128 made available by Proceedings of Government Nos. 3,407 and 3,941 of 1863 from the Government and Income Tax Funds respectively, sanctioned.	16th Jan. No. 162.	....	21st Nov. 1863, Nos. 494, 495. 17th Dec. 1863, Nos. 453, 454.	106 & 107
330&331	Proceedings Military Department, requesting that a sum of Rupees 1,39,800 may be entered in the Budget of 1864-65 on account of a Grand Magazine, &c., at Trichinopoly, communicated to the Superintending Engineer, 6th Division.	16th Jan. No. 163.	....	None.	107
332&333	Letter from the Superintending Engineer, 8th Division, requesting a re-consideration of the subject of Salt roads in the Madura District, recorded.	16th Jan. No. 164.	....	23rd Dec. 1863, Nos. 585, 586. 7th Jan. 1864, Nos. 111, 112.	107 & 108
334&335	Letter from the Agent Indian Tramway Company (Limited), requesting permission for laying their rails on the road from Arconum to Conjeveram, recorded.	16th Jan. No. 165.	....	4th June 1864, Nos. 22—24. 13th Jan. 1864, No. 259.	108
336&337	Proceedings Revenue Department forwarding copy of their letter to the Government of India on the subject of Staging Bungalows, recorded.	16th Jan. No. 166.	....	11th Dec. 1863, Nos. 293, 294.	109
338&339	Municipal Commissioners requested to state whether the services of their "Valuator" can be made available for valuing the houses which would be swamped if the Red Hill lake were raised nine feet.	16th Jan. No. 167.	....	None.	Ibid
340&341	The modifications proposed by the Superintending Engineer, 4th Division, of the Niranicum Establishments of the Palar, Poiney and Cheyar Anicuts, North Arcot District, sanctioned from the 1st May 1864 as they entail no additional expense.	16th Jan. No. 168.	....	10th Oct. 1860, Nos. 151, 152. 23rd May. 1861, Nos. 186, 187.	109 & 110
342—344	Proceedings Military Department, approving, for execution, of the Estimate of Rupees 15,500 for repairing the roof and renewing the floor of the five ranges of temporary European Infantry Barracks at Trichinopoly, communicated to the Superintending Engineer, 6th Division, with an intimation that the sum of Rupees 10,000 available from the current year's allotment for the Nellore District, under the head "Tanks" will be transferred to his credit as an instalment of the amount of the Estimate, sanctioned.	16th Jan. No. 169.	....	2nd Nov. 1863, Nos. 1, 2.	110 & 111

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
345&346	Proceedings Revenue Department, approving of the Estimates amounting to Rupees 14,290 for a new Taluq Cutcherry, &c., in the town of Coimbatore, communicated to the Superintending Engineer, 7th Division.	1864. 18th Jan. No. 170.	....	None.	111
347& 348	Proceedings Revenue Department, passing orders on the Proceedings of the Board of Revenue submitting the Budget Estimate of charges in the Revenue Department for 1864-65, communicated to the Superintending Engineers.	18th Jan. No. 171.	....	None.	Ibid
349&350	Collector of Nellore informed that it is the Engineer Officer who ought to decide the question as to the capability of the tank to receive with safety a larger supply than can be retained while the calingulah is kept open.	18th Jan. No. 172.	....	24th Dec. 1863, Nos. 607, 608.	111 & 112
351&352	The cost of the Establishment employed on the Steam Dredge at Paumben, Madura District, authorized to be charged against the Estimate for the operations on the channel at that station, commencing with pay for April last.	18th Jan. No. 173.	....	24th Dec. 1847, No. 523.	113
353—355	Proceedings Board of Revenue stating that it is unnecessary to use the Receipt Stamps at Mysore, communicated to the Superintending Engineer, 5th Division.	18th Jan. No. 174.	....	23rd June 1863, No. 1,106, Rev. Dept.	113 & 114
356&357	Post Master General informed that, for the reasons given, the improvement of the line between Tripetty and Nellore can be undertaken only after 1st May next.	18th Jan. No. 175.	....	13th Jan. 1864, Nos. 253, 254.	114
358&359	Proceedings Revenue Department, waiving all claim against the land holders from contributing their share towards the cost of the Kesavarum Anicut, channel, &c., in the Madras District, communicated to the Superintending Engineer, 4th Division.	18th Jan. No. 176.	....	None.	Ibid
360&361	Proceedings Educational Department, authorizing the proposed alteration, involving an additional charge of Rupees 1,000, in the sanctioned Plan of the School house at Rajahmundry, Godavery District, communicated to the Superintending Engineer, 1st Division.	18th Jan. No. 177.	....	None.	115
362&363	Proceedings Revenue Department, stating that Local Fund Budgets should be submitted to Government by the Board of Revenue, communicated to the Superintending Engineers, with a request that, as usual, separate Budgets for works to be executed from Income Tax Funds, may be submitted.	18th Jan. No. 178.	....	3rd Nov. 1863, Nos. 59, 60.	Ibid

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
364&365	Proceedings Revenue Department, stating that the Budget of receipts and charges for Public Bungalows will be prepared by the Board of Revenue and will include charges for construction and repair, communicated to the Superintending Engineers.	18th Jan. No. 179.	....	11th Dec. 1863, Nos. 293, 294.	115
366&367	Proceedings Military Department, forwarding letter from the Quarter Master General intimating that the owners of the shops at Cannanore, Malabar District, which were recommended to be pulled down, have been ordered to do the work at their own expense, communicated to the Superintending Engineer, 7th Division.	18th Jan. No. 180.	....	18th Dec. 1863, Nos. 480, 481.	Ibid
368&369	Letter from the Superintending Engineer, 8th Division, submitting a Statement of rates at which brick in chunam, &c., work is being executed in the Madura and Tinnevelly Districts, with orders thereon.	18th Jan. No. 181.	....	None.	115 & 116
370&371	Endorsement of the Controller and Auditor of Public Works Accounts submitting a Statement of the sums drawn on account of Public Works during the quarter ended 31st October 1863, communicated to the Deputy Auditor and Accountant General.	18th Jan. No. 182.	....	26th May 1863, Nos. 452, 453.	116
372—374	The maintenance allowance of certain roads in the Madura District authorized to be continued and those of the remaining to be abandoned, the saving of Rupees 17,693 effected thereby being disposed of as detailed in the order.	18th Jan. No. 183.	....	3rd Nov. 1863, Nos. 70, 71. 4th Jan. 1864, Nos. 1, 2. 11th Jan. 1864, Nos. 200, 201.	117
375&376	Proceedings Board of Revenue, submitting letter from the Collector of Bellary requesting that, for the reasons given, the project for bringing an irrigating canal from the Toombuddra, may no longer be delayed, with orders thereon.	18th Jan. No. 184.	....	7th Nov. 1863, Nos. 134, 135. 7th Dec. 1863, Nos. 174, 175. 8th Dec 1863, Nos. 200, 201.	118 & 120
377&378	Indent for 30 wheel barrows for the use of the 2nd Range of the Madura District, sanctioned.	18th Jan. No. 185.	....	2nd Oct. 1863, Nos. 51, 52. 16th Nov. 1863, Nos. 321, 322.	120 & 121
379&380	Letter from the Chairman Indian Tramway Company (Limited), forwarding copy of his letter to the Company's Engineer giving certain instructions with reference to the line of light Railway between Arconum and Conjeveram, recorded.	18th Jan. No. 186.	....	16th Jan. 1864, Nos. 334, 335.	121 & 122

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
381&382	Letter from Mr. Kennedy, Spepecial Executive Engineer, submitting an Estimate of Rupees 2,35,000, for the extension of the East Coast Canal from Doogarazpatam to Kistnapatam in the Nellore District, with orders thereon.	18th Jan. No. 187.	....	2nd July 1863, No. 31. 9th Jan. 1864, Nos. 170—172.	122 to 124.
383	Estimate of Rupees 2,35,000 for the extension of the East Coast Canal from Doogarazpatam to Kistnapatam in the Nellore District forwarded, for consideration, to the Government of India.	18th Jan. No. 188.	....	Ditto.	124
384&385	Letter from the Government of India, authorizing the transfer from the head of "Reserve" to that of "Repairs" of the sum of Rs. 4,000 for the maintenance of the Charmady Ghát and Road in the South Canara District, communicated to the Superintending Engineer, 7th Division.	18th Jan. No. 189.	....	20th Nov. 1863, Nos. 477—479	127
386&387	Bill amounting to Rupees 62-2-0 being the expenses incurred in removing the furniture, records, &c., of the Office of the Executive Engineer Presidency, from the Pantheon to the Mount Road, authorized to be met from the sum of Rupees 22,000 set apart during 1863-64, on account of India freight, landing, &c.	18th Jan. No. 190.	....	16th Nov. 1863, Nos. 337, 338.	Ibid
388&389	Bills of the Bangalore District for works executed on emergency, sanctioned.	19th Jan. No. 191.	....	19th Dec. 1863, Nos. 494, 495.	128
390&391	Bill of the Madura District for work executed on emergency, sanctioned.	19th Jan. No. 192.	....	None.	Ibid
392&393	Abandonment of the road from Goriathum to Vencatagherry Cottah by the Nackenary Pass, North Arcot District, sanctioned.	19th Jan. No. 193.		7th Oct. 1862, Nos. 96, 97.	129
394—396	Letters from the Superintending Engineers, 1st and 3rd Divisions, reporting the appointment of S. Venkatasawmy and Aurnachellum Mudali of the late Sub-Overseers, to act as Táluq Overseers, during the absence of T. Ramiah and D. Baupiah of the Ganjam and Bellary Districts respectively, recorded.	19th Jan. No. 194.	....	9th Jan. 1864, Nos. 165, 166.	129 & 130
397&398	Estimates amounting to Rupees 3,490 for repairing breaches in the bank of the Weya Condan Channel and in the road from Tanjore to Trichinopoly, sanctioned.	19th Jan. No. 195.	....	19th Nov. 1863, Nos. 438, 439.	Ibid

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
399	Government of India requested to transfer a further sum of Rs. 3,500 from the head "Reserve" to that of "Repairs" for repairing the damages sustained by the Weya Condan Channel and the Tanjore road in the Trichinopoly District.	19th Jan. No. 196.	....	19th Nov. 1863, Nos. 438, 439.	130
400&401	Letter from the Superintending Engineer, 1st Division, stating that the entry of Rupees 98 in the column of "Increase per month" in the Statement B. which accompanied his No. 149 of 1863, is a clerical error, and that the correct amount is Rupees 48, recorded.	19th Jan. No. 197.	....	14th Dec. 1863, Nos. 335, 336.	131
402&403	Telegram from the Government of India stating that, in future years, provision for Staging Bungalows should be made in Local Fund Budget, recorded.	19th Jan. No. 198.	....	21st Dec. 1863, Nos. 522, 523. 6th Jan. 1864, Nos. 87, 88.	Ibid
404&405	Plan and estimate for an Anicut across the Mahinmuttanaddee, South Arcot District, approved, but the execution of the work postponed till 1865-66.	19th Jan. No. 199.	....	15th Dec. 1862, Nos. 288, 289. 26th Nov. 1863, Nos. 636, 637.	131 & 132
406&407	Supplemental Estimate of Rs. 1,880 for the completion of the Kordachari bridge, Tanjore District, sanctioned.	19th Jan. No. 200.	....	15th Sept. 1863, Nos. 249, 250. 25th July 1863, Nos. 685, 686.	132 & 133
408&409	Collector of Vizagapatam requested to submit to the Superintending Engineer, 1st Division, copies of Estimates for Salt works sanctioned by him for execution by his Deputy	19th Jan. No. 201.	....	1st April 1862, Nos. 7, 8.	133 & 134
410&411	Bill of the Vizagapatam District, for work executed on emergency, sanctioned.	19th Jan. No. 202.	....	None.	135
412&413	The expenditure of Rupees 175-9-3 incurred by Captain Paxton in completing his trials for a horizontal wind-mill with his model, authorized to be met from the current year's Reserve.	19th Jan. No. 203.	....	22nd, Dec. 1862, Nos. 422, 423.	135 & 136
414	Permission granted for the transfer to the Reserve of a further sum of Rupees 12,000 from the amount provided for "Stores" in 1863-64.	19th Jan. No. 204.	....	24th Dec. 1863, No. 604.	137
415&416	The sum of Rupees 6,139, sanctioned for the Cuddambella bridge, South Canara District, authorized to be re-credited to the Reserve Fund.	19th Jan. No. 205	....	15th Jan. 1864, No 272, 273.	Ibid

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
417&418	Proceedings Public Department, resolving to entrust to the Municipal Commissioners the work of constructing a raised foot-way for foot passengers along the South Beach road from the Marine Villa to Saint Thomé, Presidency District, and stating that the charge, Rupees 4,216, will be met from the Reserve for unforeseen contingencies, F. IX, communicated to the Superintending Engineer, 4th Division.	19th Jan. No. 206.	....	None.	137
419&420	Proceedings Public Department, sanctioning a grant of Rupees 1,000 in aid of the bunds constructed, by private subscription across the Cooni at Chetputt, with a view to storing fresh water for the hot season, and stating that the amount will be met from the Reserve for unforeseen contingencies, F. IX, communicated to the Superintending Engineer, 4th Division.	20th Jan. No. 207.	....	None.	Ibid
421&422	Proceedings Revenue Department stating that the charge for the collecting establishment on Cochrane's Canal must be entered in the Public Works Budget pending a reference to the Supreme Government, communicated to the Superintending Engineer, 4th Division, and the Controller of Public Works Accounts.	20th Jan. No. 208.	....	27th April 1863, Nos. 457—459. 6th Jan. 1864, Nos. 87, 88.	138
423&424	Proceedings Revenue Department requesting Colonel Ludlow to make arrangements with Colonel Cotton the Superintending Engineer and the Collector of the District through which the Irrigation Company's Canal will pass for a series of careful experiments, as soon as water is available, as to the quantity of water required per acre, communicated to the Consulting Engineer.	20th Jan. No. 209.	....	None.	Ibid
425&426	Superintending Engineers, 5th and 6th Divisions, requested to report on the condition of the portions of road between Salem and Trichinopoly lying within the limits of their respective Divisions.	20th Jan. No. 210.	....	24th Dec. 1861, Nos. 310, 311.	138 & 139
427&428	Proceedings Educational Department, calling for a report as to the progress made in the preparation of the revised Plan and Estimates for the Lawrence Asylum at Ootacamund, Coimbatore District, communicated to the Superintending Engineer, 7th Division.	20th Jan. No. 211.	....	16th Dec. 1863, Nos. 395, 396.	139
429&430	Bill of the South Canara District, exceeding its Estimate by more than 5 per cent., sanctioned.	20th Jan. No. 212.	....	None.	140 & 141

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
431&432	Proceedings Judicial Department, relative to the construction of a new Táluq Cutcherry, &c., at Russelcondah, Ganjam District, communicated to the Superintending Engineer, 1st Division.	20th Jan. No. 213.	....	13th Aug. 1863, Nos. 242, 243.	141
433&434	Estimate of Rupees 2,340, submitted by the Consulting Engineer Irrigation and Canal Company for an Office at Jupaud in the Nagatoor Division, sanctioned.	20th Jan. No. 214.	....	None.	Ibid
435&436	The dismissal of Táluq Overseer T. Iyavu Mudali of the Kurnool District and of the appointment in his stead of late Sub-Overseer Murgasum Mudali, approved.	20th Jan. No. 215.	....	None.	141 & 143
437&438	Permission granted for the removal of the restriction imposed in the Chief Engineer's Circular No. XLIV of 1862, regarding Casual Leave, and for Superintending Engineers availing themselves of it in cases of extreme urgency.	20th Jan. No. 216.	....	12th Aug. 1861, Nos. 212, 213.	143
439&440	Estimate of Rupees 654, submitted by the Consulting Engineer Irrigation and Canal Company for two escape channels for Culverts Nos. 5 and 6 in the 5th portion of the Company's Main Channel, sanctioned.	20th Jan. No. 217.	....	None.	144
441&442	Proceedings Board of Revenue, submitting letter from the Collector of Godavery reporting on the Public Works executed in the District during 1862-63, communicated to the Superintending Engineer, 1st Division.	20th Jan. No. 218.	....	None.	144 to 146
443&444	Recommendation of the Superintending Engineer, 4th Division, that permission be granted for spending a portion of the amount allotted to the Northern Canal from the Basin to the boundary of the Madras limits, on the Southern Canal from Madras to Palar river, acceded to on the understanding that the total amount allotted for the two is not exceeded.	20th Jan. No. 219.	....	10th June 1862, Nos. 202, 203.	146
445&446	Superintending Engineer, 7th Division, requested to report whether the Estimates amounting to Rupees 390 and 80 respectively, for alterations to the Lightning Conductors at Cannanore and Malliapuram, Malabar District, cannot be met from savings in the allotments for new works.	20th Jan. No. 220.	....	8th Jan. 1864, Nos. 137, 138.	147

1 Index numbers of the Proceed-ings.	2 Subjects.	3 Dates of Proceed-ings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
447&448	The source pointed out by the Superintending Engineer, 5th Division, for meeting Rupees 62, being the cost of enclosing a piece of waste ground attached to the Rest House compound at Tripatur, Salem District, approved.	21st Jan. No. 221.	....	13th Nov. 1863, Nos. 253, 254. 7th Dec. 1863, Nos. 147, 148. 23rd Dec. 1863, Nos. 575, 576. 12th Jan. 1864, Nos. 232, 233.	147
449&450	Superintending Engineer, 5th Division, requested to submit a Statement of the furniture required for his office.	21st Jan. No. 222.	....	16th July 1863, Nos. 387, 388. 11th Jan. 1864, Nos. 179, 180.	148
451&452	Proceedings Military Department, forwarding letter from the Quarter Master General stating that there is no objection to the execution of the additions, &c., proposed by the Inspector General, Madras Police, to the Military Hospital at Rajahmundry, Godavery District, and that it will be resumed if required for Military purposes at any future time, communicated to the Superintending Engineer, 1st Division.	21st Jan. No. 223.	....	12th May 1863, Nos. 186, 187. 23rd Oct. 1863, Nos. 489, 490.	Ibid
453&454	Proceedings Judicial Department, forwarding letter from the Inspector General of Jails enclosing copy of his notes relative to the state of progress on the Coimbatore Jail works, and stating that Lieutenant Trail cannot be invested with powers of punishment over prisoners confined in the Zillah Jail under charge of the Session Judge, communicated to the Superintending Engineer, 7th Division.	21st Jan. No. 224.	....	30th Nov. 1863, Nos. 703, 704.	Ibid
455&456	Proceedings Revenue Department, forwarding Proceedings of the Board of Revenue stating that the verandah along the west front of their present Office at Chepauk, Presidency District, is absolutely necessary, communicated to the Superintending Engineer, 4th Division.	21st Jan. No. 225.	....	15th Jan. 1864, Nos. 278, 279.	149
457&458	Superintending Engineer, 3rd Divison, informed that Captain Fisher has given an erroneous advice to Mr. Porter on the subject of the project for the investigation of the practicability of irrigating the plain lying between the Toombaddra and the Hindri from the former river by an Anicut at or near to Seerigoopah, and that in Proceedings, No. 3,621 of 1863, Mr. Porter's instructions are very explicitly defined.	21st Jan. No. 226.	....	7th Nov. 1863, Nos. 134, 135. 8th Dec. 1863, Nos. 200, 201.	Ibid

1 Index numbers of the Proceed-ings.	2 Subjects.	3 Dates of Proceed-ings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
459&460	Proceedings Military Department, approving of the Estimates amounting to Rupees 6,840 for a new Privy for the Battery of Artillery at Trichinopoly, and for alterations to Artillery Barracks to form a sleeping room, communicated to the Superintending Engineer, 6th Division.	21st Jan. No. 227.	....	2nd Nov. 1863, Nos. 17, 18.	149
461&462	The attention of the Superintending Engineer, 1st Division, drawn to Proceedings No. 2,626 of 1863, with reference to his letter submitting an Estimate for the conversion of the late District Engineer's Office at Chetterpore, Ganjam District, into a public Bungalow.	21st Jan. No. 228.	....	28th Aug. 1863, Nos. 289, 290. 12th Sept. 1863, Nos. 235, 236.	150
463&464	Endorsement of the Government of India, sanctioning the transfer from the Postal to the Public Works Budget of 1863-64 of Rupees 3,504, being the amount required for the erection of a Post Office, at Beypore, Malabar District, communicated to the Superintending Engineer, 7th Division.	21st Jan. No. 229.	....	None.	150 & 151.
465&466	Letter from the Government of India, stating that from 1st May 1864 due provision for the requisite funds for staging Bungalows should be made from local income, recorded.	21st Jan. No. 230.	....	21st Dec. 1863, Nos. 522, 523. 18th Jan. 1864, Nos. 364, 365.	151
467&468	Permission granted for the expenditure on the Madura Water project and the road from Buttalagoonta to Pullaputty of the sum of Rupees 5,582, available from the Imcome Tax allotments for the Madura District, for the years 1860-61 and 1861-62.	21st Jan. No. 231.	....	10th Dec. 1863, Nos. 266—268. 15th Jan. 1864, Nos. 296, 297.	151 & 152
469&470	The attention of the Superintending Engineer, 3rd Division, drawn to Proceedings No. 1,748 of 1863, with reference to his letter requesting that Officers of his rank be empowered, to re-arrange repair allotments.	21st Jan. No. 232.	....	25th Aug. 1862, Nos. 379, 380. 16th March 1863, Nos. 243—245. 3rd July 1863, Nos. 44, 45.	152 & 153
471&472	Proceedings Revenue Department, referring to the Board of Revenue, letter from the Consulting Engineer Irrigation and Canal Company regarding the mode of collecting water-rate, &c., with a request that they will confer on the subjects therein discussed with the above Officer and the Collector of Kurnool, and submit a draft of forms of Account and Regulations, communicated to the Consulting Engineer.	21st Jan. No. 233.	....	16th Oct. 1863, Nos. 328, 329.	153

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
473&474	Letter from the Superintending Engineer, 7th Division, on the subject of a fatal accident that befel one of the Convicts at work at the new Lawrence Asylums, Coimbatore District, communicated to the Judicial Department.	21st Jan. No. 234.	....	None.	154
475&476	Letter from the Superintending Engineer, 7th Division, explaining the cause of difference between the sum put down by him and the sum actually to be drawn from toll collections for the improvement of the road from the Coimbatore Railway station to the foot of the Coonoor Ghát, communicated to the Controller of Public Works Accounts.	21st Jan. No. 235.	....	11th Jan. 1864, Nos. 183, 184.	Ibid.
477—479	Superintending Engineer, 1st Division, requested to proceed at once with the construction of the Cutcherry and Police Station at Darangapadi, &c., Ganjam District, furnishing certain information in connection with the same.	21st Jan. No. 236.	....	None.	Ibid.
480—482	Letters from Captain Tulloch and Mr. Fraser, Special Executive Engineers, applying for increased Office and Executive Establishments, with orders thereon.	21st Jan. No. 237.	....	2nd July 1863, Nos. 28—30. 21st July 1863, Nos. 503—505.	155 to 160
483&484	Superintending Engineer, 1st Division, requested to furnish certain information in connection with Mr. Nowland's claim to Rupees 74 for Medical attendance and the cost of medicine during November 1863.	21st Jan. No. 238.	....	22nd Oct. 1863, Nos. 450, 451. 5th Dec. 1863, Nos. 130, 131.	162
485&486	Superintending Engineer, 8th Division, informed that on the receipt of the Statements called for in Proceedings No. 3,681 of 1863, Government will be in a position to see how far it will be practicable to comply with applications for increased grants under specific heads.	21st Jan. No. 239.	....	3rd Oct. 1863, Nos. 83—87. 14th Dec. 1863, Nos. 329, 330.	163
487&488	Proceedings Military Department, approving of the Estimate of Rupees 21,500 for renewing the roof of the European Infantry Barracks at Bangalore, communicated to the Superintending Engineer, 5th Division.	22nd Jan. No. 240.	....	10th Sept. 1863, Nos. 163, 164. 24th Dec. 1863, Nos. 642, 643.	Ibid.
489&490	Superintending Engineer, 7th Division, requested to submit a Bill for the outlay incurred in converting the Caroor District Moonsiff's Court, Coimbatore District, into a Chuttrum for travellers.	22nd Jan. No. 241.	....	8th July 1863, Nos. 141, 142.	Ibid.

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
491&492	Letter from the Government of India, stating that savings on repairs should first be credited to the Reserve, and from that head re-appropriated to original works, communicated to the Superintending Engineers and the Controller of Public Works Accounts.	22nd Jan. No. 242.	....	16th Nov. 1863, Nos. 316—318.	164
493&494	Proceedings Revenue Department, communicating Despatch from the Home Government together with that to which it is a reply regarding the system to be adopted in assessing the lands irrigated in Kurnool by the Irrigation Company, recorded.	22nd Jan. No. 243.	....	21st Jan. 1864, Nos. 471, 472.	Ibid
495	Government of India requested to grant authority for the transfer to the Reserve of such sums that are likely to be unspent from the further grant of Rupees 3,00,000 sanctioned for expenditure on certain Public Works in the Madras Presidency, and for their appropriation to the completion of other equally important works for which no funds are available.	22nd Jan. No. 244.	....	21st Nov. 1863, Nos. 494, 495.	Ibid
496&497	Proceedings Military Department, forwarding papers relative to the removal of the Hospital of Her Majesty's 69th Regiment to the upper story of the new wing of the General Hospital, Presidency District, communicated to the Superintending Engineer, 4th Division.	22nd Jan. No. 245.	....	10th Oct. 1863, Nos. 211, 212.	165
498&499	Proceedings Revenue Department, communicating Proceedings of the Board of Revenue forwarding letter from the Collector of Bellary reporting further on the prospects of the season in the District, recorded.	22nd Jan. No. 246.	....	18th Jan. 1864, Nos. 375, 376.	Ibid
500&501	Despatch from the Home Government, returning the copy of Mr. Dopping's Memorial forwarded to them, recorded.	22nd Jan. No. 247.	....	24th April 1863, Nos. 420, 421. 27th Oct. 1863, Nos. 591, 592.	Ibid
502&503	Proceedings Military Department, approving of the Estimate of Rupees 620 for re-roofing the rear verandah of the new Family Quarters in Begum's Bungalow compound at the Mount, Madras District, communicated to the Superintending Engineer, 4th Division.	22nd Jan. No. 248.	....	None.	Ibid

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
504&505	Proceedings Military Department, communicating to the Commander-in-Chief Proceedings Public Works Department stating the circumstances under which the usual course has not been followed when applying for the services of Lieutenants Morant and Pennefather, recorded.	22nd Jan. No. 249.	....	12th Dec. 1863, Nos. 327, 328.	166
506&507	Proceedings Revenue Department, approving of the Estimate of Rupees 1,040 for making certain alterations to the building lately occupied by the Sub-Collector's Office at Chingleput, Madras District, to provide accommodation for the Tahsildar's Cutcherry, communicated to the Superintending Engineer, 4th Division.	22nd Jan. No. 250.	....	29th July 1863, Nos. 814, 815.	Ibid
508&509	Proceedings Military Department, approving of certain works in connection with the new Dragoon Barracks at Bangalore being included in the Budget of 1864-65, recorded.	22nd Jan. No. 251.	....	26th Sept. 1863, Nos. 579, 580.	Ibid
510	Superintendent of Marine requested to arrange for passage being provided for the Controller of Public Works Accounts and his Head Accountant who were ordered to proceed to Calcutta on special duty and permission granted for an advance of one month's pay to them.	22nd Jan. No. 252.	....	10th Dec. 1863, Nos. 244, 245.	Ibid
511&512	Controller of Public Works Accounts, requested to report the exact amount which should be charged against the Educational Building Budget on account of Public Works Establishment.	22nd Jan. No. 253.	....	17th Nov. 1863, Nos. 371, 372.	167
513&514	Controller of Public Works Accounts, requested to explain the cause of the omission from the appropriation Return for July 1863 of the works sanctioned in G. O. No. 192 of 1863.	23rd Jan. No. 254.	....	22nd Sept. 1862, Nos. 384, 385. 25th June 1863, Nos. 565, 566. 17th July 1863, Nos. 408, 409. 19th Dec. 1863, Nos. 492, 493.	167 & 168
515	Appropriation Register for July 1863 together with copy of the Proceedings of the Madras Government reviewing the same, forwarded to the Government of India.	23rd Jan. No. 255.	....	Ditto.	168
516&517	Letter from the Superintending Engineer, 1st Division, reporting the departure of the H. Company of Sappers from the Kalingia Ghát to Russelcondah, and offering his remarks on the same, communicated to the Military Department.	23rd Jan. No. 256.	....	15th Dec. 1863, Nos. 368, 369.	168 & 169

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
518&519	Proceedings Military Department, forwarding letter from the Quarter Master General, bringing to notice the state of the road between Salem and Trichinopoly, communicated to the Superintending Engineers, 5th and 6th Divisions.	1864. 23rd Jan. No. 257.	....	20th Jan. 1864, Nos. 425, 426.	169
520&521	Proceedings Military Department, approving for execution, of the Estimate of Rupees 1,900 for the construction of Receiving, Store, Surgery and Bathrooms to the Lock Hospital at Saint Thomas' Mount, Madras District, communicated to the Superintending Engineer, 4th Division.	23rd Jan. No. 258.	....	28th April 1862, Nos. 428, 429.	Ibid
522&523	Superintending Engineer, 8th Division, authorized to purchase 12 copies of the Sheet Calendar of 1861 and to charge the cost in his Contingent bill.	23rd Jan. No. 259.	....	None.	Ibid
524&525	Endorsement of the Secretary to the Board of Revenue submitting the list of Unanswered References for the second half year of 1863, recorded.	23rd Jan. No. 260.	....	15th Feb 1862, No. 38, Mis. 17th Feb. 1863, Nos. 295, 296.	170 & 171
526&527	Proceedings Educational Department, requesting the preparation of a revised Plan and Estimate for the alterations and additions to the Medical College building, Presidency District, which have been recommended by the Principal, communicated to the Superintending Engineer, 4th Division.	23rd Jan. No. 261.	....	25th Aug. 1863, Nos. 499, 500.	171
528&529	Proceedings Military Department, placing the services of Lieutenants Marindin and Cumming, Royal Engineers, at the disposal of the Government of India for employment at Port Blair and Calcutta, respectively, recorded.	23rd Jan. No. 262.	....	8th Jan. 1864, Nos. 121, 122.	Ibid
530&531	Controller of Public Works Accounts authorized to include in the appropriation Returns, the excesses that take place in the several Districts, in appropriations made under the sub-divisional heads of the "Repair Budget."	23rd Jan. No. 263.	....	3rd July 1863, Nos. 44, 45.	171 & 172
532&533	Superintending Engineer, 1st Division, authorized to appoint an Officer for the work of constructing a Cutcherry and Police Station at Darangapudi, &c., Ganjam District and charge his salary to the work.	23rd Jan. No. 264.	....	20th Jan. 1864, Nos. 431, 432.	172
534&535	Letter from the Superintending Engineer, 8th Division, submitting the comparative Statement, called for, for the road from Palamcottah to Tuticorin, Tinnevelly District, recorded.	23rd Jan. No. 265.	....	17th Dec. 1863, Nos. 437, 438.	Ibid

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
536&537	Proceedings Military Department, authorizing the omission, from the list of Unanswered References, of the requisition for a new Hospital for the Artillery at Bangalore, communicated to the Superintending Engineer, 5th Division.	23rd Jan. No. 266.	....	23rd June 1863, Nos. 532, 533. 21st Sept. 1863, Nos. 428, 429. 16th Nov. 1863, Nos. 358—360.	173
538&539	Superintending Engineer, 2nd Division, requested to forward Mr. Sub-Engineer Colquhoun's application for an extension of leave on Medical Certificate.	23rd Jan. No. 267.	....	25th Sept. 1863, Nos. 554, 555.	Ibid
540&541	Recommendation of the Superintending Engineer, 1st Division, that the earthern pipes prepared for the proposed Cantonment at Waltair, Vizagapatam District, be used for small sluices of irrigation works and charged for at one-fourth of the value, acceded to, and permission granted for writing off the remainder.	25th Jan. No. 268.	....	7th Dec 1863, Nos. 176, 177.	173 & 174
542&543	Captain H. Tulloch, Special Executive Engineer, authorized to employ four additional Lascars in connection with the drainage project.	25th Jan. No. 269.	....	21st Jan. 1864, Nos. 480—482.	174
544&545	Permission granted for the construction of Range Offices, four in Bellary and one in Kurnool, at a cost not exceeding Rupees 350 each.	25th Jan. No. 270.	....	24th Dec. 1863, Nos. 621, 622.	174 & 175
546&547	Bill amounting to Rupees 854-0-8 for the road No. 5 from Meyloor to Teroopatoor, Madura District, sanctioned.	25th Jan. No. 271.	....	None.	175
548&549	Estimate of Rupees 470 for closing a new course of the river Mahanuddy near Nowpully in the Ganjam District, sanctioned.	25th Jan. No. 272.	....	5th Aug. 1863, Nos. 49, 50.	175 & 176
550&551	The original Plans, Estimates, &c., for a road from Aska to Ganjam returned to the Superintending Engineer, 1st Division, for careful revision and re-submission after 1st May next.	25th Jan. No. 273.	....	20th Nov. 1863, Nos. 467, 468.	176
552&553	Mr. Kennedy, Special Executive Engineer, authorized to take charge of the Monapallam Light House, Nellore District.	25th Jan. No. 274.	....	None.	176 & 177
554&555	Superintending Engineer, 7th Division, informed that under certain conditions Mr. Merrall will be permitted to retire from the service with a gratuity of thirteen months' salary and the cost of an overland passage to England.	25th Jan. No. 275.	....	14th Aug. 1863, Nos. 292, 293. 27th Oct. 1863, Nos. 573, 574.	177

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
556&557	Estimates amounting to Rupees 1,695 for repairs to bridges and drains in the Cantonment roads of Ootacamund, Coimbatore District, sanctioned.	25th Jan. No. 276.	....	30th April 1863, Nos. 579—581.	177 & 178
558&559	The project for the storage of water at Papanassum, Tinnevelly District, authorized to lie over.	25th Jan. No. 277.	....	18th Dec. 1863, Nos. 186, 187. 18th Jan. 1864, Nos. 372—374.	178 & 179
560&561	Letter from the Municipal Commissioners for the Town of Madras, intimating that the services of their Acting Assessor, Mr. G. R. Leggatt, will be placed from the 28th January 1864, at the disposal of Government for valuing the houses that will be swamped if the Red Hill Lake were raised nine feet, communicated to Mr. Fraser, Special Executive Engineer.	25th Jan. No. 278.	....	16th Jan. 1863, Nos. 338, 339.	179
562&563	Despatch from the Home Government, forwarding copies of a letter and its enclosures from the Directors of the Great Southern of India Railway Company urging the early construction of certain small works for making the Harbour at Negapatam, Tanjore District, available at all times for small country craft, communicated to the Superintending Engineer, 6th Division, for his opinion on the subject.	26th Jan. No. 279.	....	6th June 1862, Nos. 120, 121. 11th Sept. 1862, Nos. 193, 194. 19th June 1863, Nos. 442, 443. 21st Oct. 1863, Nos. 444, 445.	179 & 180
564&565	Permission granted for the sum of Rupees 450 provided in Part II of the Budget for the Trichinopoly District for 1863-64, under the head "Discretionary Allowance" being expended on the road from Trichinopoly to the Salem frontier viâ Terriore.	26th Jan. No. 280.	....	5th Jan. 1864, Nos. 43, 44.	181
566&567	Proceedings Military Department, forwarding letter from the Adjutant General, stating that the necessary authority will be given to enable Serjeant Harris to obtain his free discharge, as soon as the report called for, on the adjustment of his claims, is received, communicated to the Superintending Engineer, 1st Division.	26th Jan. No. 281.	....	7th Jan. 1864, Nos. 113, 114.	Ibid
568—570	Certain applications for Presidency house rent declined to be submitted to the Government of India.	26th Jan. No. 282.	....	12th Nov. 1863. Nos. 218—222 A. 6th Jan. 1864, Nos. 83, 84. 12th Jan. 1864, Nos. 206, 207.	181 & 182

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
571&572	Letter from the Controller of Public Works Accounts, forwarding one from the Superintending Engineer, 1st Division, requesting that certain corrections may be made in the appropriation Register of his Division, Vizagapatam District, for May 1863, with orders thereon.	26th Jan. No. 283.	....	25th Nov. 1863, Nos. 576, 577. 5th Dec. 1863, Nos. 142—144.	182
573	Letter from the Controller of Public Works Accounts giving cover to one from the Superintending Engineer, 1st Division, requesting that certain corrections may be made in the Appropriation Register for May 1863, forwarded to the Government of India.	26th Jan. No. 284.	....	Ditto.	183
574&575	Letter from the Superintending Engineer, 4th Division, stating that for the reasons given he cannot recommend the use of iron girders for the proposed bridge across the Palar near Chingleput, Madras District, recorded.	26th Jan. No. 285.	....	5th Nov. 1863, Nos. 95, 96.	Ibid
576—578	Two Estimates each amounting to Rupees 350 for constructing Range Offices at Pollachy and Berhampore situated in the Coimbatore and Ganjam Districts, respectively, sanctioned.	26th Jan. No. 286.	....	21st Nov. 1863, Nos. 509—517.	184
579&580	Letter from the Consulting Engineer, Irrigation and Canal Company, forwarding the Statement of expenditure incurred during November 1863, recorded.	26th Jan. No. 287.	....	9th Dec. 1863, No. 41, Mis.	184 & 185
581&582	Proceedings Judicial Department, requesting that it may be ascertained whether the present Jailer's house at Guindy, Madras District, cannot be put into efficient repair at a cost considerably below the estimated expense of a new one, communicated to the Superintending Engineer, 4th Division.	26th Jan. No. 288.	....	25th April 1861, Nos. 391, 392. 11th June 1862, Nos. 220, 221.	185
583&584	Estimate of Rupees 350 for constructing a Range Office at Namakul, Salem District, sanctioned.	26th Jan. No. 289.	....	21st Nov. 1863, Nos. 509—517.	Ibid
585&586	Letter from the Government of India, authorizing provisionally the payment of the full salaries of all the appointments save that of Deputy Secretary, which have been made in connection with the re-organization of the Public Works Department of the Madras Presidency, recorded.	27th Jan. No. 290.	....	12th Nov. 1863, Nos. 218—222A. 6th Jan. 1864, Nos. 83, 84.	186
587&588	The additional Establishment applied for by the Executive Engineer in charge of the Military buildings at Bellary and Ramandrug, declined to be sanctioned.	27th Jan. No. 291.	....	10th Dec. 1863, Nos. 256, 257.	187

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
589&590	The course recommended by the Consulting Engineer, Irrigation and Canal Company in connection with advances to be made to the Officers of the Company, sanctioned.	27th Jan. No. 292.	....	24th Dec. 1863, Nos. 623, 624.	187 & 188
591&592	Endorsement of Mr. Fraser, Special Executive Engineer submitting his Diary for December 1863, with orders thereon.	27th Jan. No. 293.	....	2nd July 1863, Nos. 28—30.	188 to 192
593&594	Recommendation of the Board of Revenue that a Toll house and gate be erected with the proceeds of the tolls levied on the roadway over the Pennar Anicut in Nellore, acceded to.	27th Jan. No. 294.	....	5th June 1863, No. 1,261, Rev. Dept.	192 & 193
595&596	Proceedings Judicial Department, communicating letter from the Government of India sanctioning provisionally the proposed charge of Rupees 1,29,000 in 1864-65, for Police buildings, recorded.	27th Jan. No. 295.	....	None.	193
597&598	Superintending Engineer, 8th Division, informed that the Lightning Conductor at Palamcottah, Tinnevelly District, should be altered as originally proposed.	28th Jan. No. 296.	....	8th Jan. 1864, Nos. 137, 138.	Ibid
599&600	Certain Funds of the Districts comprising the 7th Division, authorized to be re-distributed as proposed by the Superintending Engineer.	28th Jan. No. 297.	....	30th Nov. 1863, Nos. 713, 714. 5th Dec. 1863, Nos. 123, 124. 7th Dec. 1863, Nos. 145, 146. 14th Dec. 1863, Nos. 329, 330. 15th Jan. 1864, No 262, 263.	194
601&602	Proceedings Revenue Department, forwarding copy of their letter to the Government of India requesting sanction for the entry in the Revenue Budget of certain Establishments which are erroneously charged to Public Works, communicated to the Superintending Engineers and the Controller of Public Works Accounts.	28th Jan. No. 298.	....	20th Jan. 1864, Nos. 421, 422.	Ibid
603&604	Endorsement of the Government of India forwarding a preliminary Statement of Public Works Funds for the Budget of 1864-65, recorded.	28th Jan. No. 299.	....		195
605&606	Bill of the Tanjore District, exceeding its Estimate by more than 5 per cent., sanctioned.	28th Jan. No. 300.	....	None.	196 & 197

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
607&608	Rupees 1,880 required for the two groynes at Maravapolliem for the preservation of the Nunjapoogaloor channel, Coimbatore District, sanctioned from the funds proposed by the Superintending Engineer.	28th Jan. No. 301.	....	1st April 1863, Nos. 15, 16. 23rd June 1863, Nos. 534, 535. 25th July 1863, Nos. 665, 666. 22nd Sept. 1863, Nos. 496, 497.	197
609&610	Two Estimates the one for fixing 68 granite stones for the Rifle Range Practice of Her Majesty's 102nd Regiment at Cannanore, and the other for improvements to the Treasury room in the Kurambanad Táluq Cutcherry, Malabar District, referred respectively to the Military and Revenue Departments.	28th Jan. No. 302.	....	None.	196 & 197
611&612	Superintending Engineer, 5th Division, informed that as Mr. Barringer is reported to have delivered over charge of the Oossoor Range, Salem District, to Mr. Paynter on the 19th November 1863, he is not entitled from that date to the higher rate of travelling allowance authorized to Táluq Overseers in temporary charge of ranges.	28th Jan. No. 303.	....	26th Aug. 1863, Nos. 574, 575.	198
613&614	Proceedings of the Superintending Engineer, 1st Division, placing Rupees 12,500 at the disposal of the Collector of Vizagapatam for the completion of the Petta Ghát in the Jeypore country, approved.	28th Jan. No. 304.	....	4th Dec. 1863, Nos. 121, 122. 12th Dec. 1863, Nos. 313, 314.	199
615&616	Superintending Engineer, 5th Division, authorized to omit from his future lists of Unanswered References, the Proceedings No. 2,812 of 1859 relative to the Chuttrums proposed to be constructed at Topoor and Adamancotta, Salem District.	28th Jan. No. 305.	....	6th Oct. 1859, Nos. 14, 15. 2nd Dec. 1859, Nos. 28, 29.	199 & 200
617—619	Proceedings Military Department, approving of the Estimates amounting to Rupees 350 and 696 respectively, for fitting and fixing iron bars to the windows of the Commissariat godown at Wellington, Coimbatore District, and for minor improvements to the married quarters at that station, communicated to the Superintending Engineer, 7th Division.	28th Jan. No. 306.	....	23rd July 1863, Nos. 578, 579. 6th Oct. 1863, Nos. 123, 124. 27th Oct. 1863, Nos. 577, 578.	200
620&621	Captain J. G. Ryves informed that for the reasons given, the relative positions of Lieutenant-Colonel Wilkieson and himself, in connection with the commission of enquiry into the system of Accounts generally in the Public Works Department must be defined by the Supreme Government.	28th Jan. No. 307.	....	27th Nov. 1863, Nos. 675, 676. 22nd Jan. 1864, No. 510.	Ibid

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1864.			
622&623	Superintending Engineer, 2nd Division, requested to submit the information called for in connection with the Estimate of Rupees 860 for the construction of huts to the Police watching the Salt platforms in the Nellore District.	28th Jan. No. 308.	....	23rd Nov. 1863, Nos. 541, 542.	201
624&625	Orders on the letter from the Superintendent of Operations at Paumben Madura District, requesting permission for the purchase of a boat which is for sale at Tellicherry deferred to be passed until furnished with the Superintending Engineer's replies to the Proceedings Nos. 33 and 157 of 1864.	28th Jan. No. 309.	....	6th Jan. 1864, Nos. 71, 72. 15th Jan. 1864, Nos. 318, 319.	201 & 202
626&627	Accountant General informed that the salaries of the Consulting Engineers for Railways and for the Madras Irrigation and Canal Company, their Establishment, &c., are not chargeable against the allotments of 64 lacs for Public Works in the Madras Presidency for 1864-65, but will be separately provided for in the Budget of those Officers.	28th Jan. No. 310.	....	28th Jan. 1864, Nos. 603, 604.	202
628&629	Superintending Engineer, 7th Division, requested to apply after 1st May next, for a special grant for a Post Office at Poothanoor, Coimbatore District.	29th Jan. No. 311.	....	None.	203
630&631	Superintending Engineer, 4th Division, requested to submit after 1st May next the Estimate for the thorough renewal of the Public Works Store-rooms at Chepauk, &c. Presidency District.	29th Jan. No. 312.	....	None.	203 & 204
632&633	Bill amounting to Rupees 1,071-8-6 for building a timber bridge at the approaches of the single arched masonry one at Eachinary in the Coimbatore District, sanctioned.	29th Jan. No. 313.	....	30th April 1863, Nos. 575, 576.	204
634&635	Superintending Engineer, 4th Division, authorized to omit from his future lists of Unanswered References, the G. O. No. 2,260 of 1857, relative to the road from Pootulput to Kircumbady in the North Arcot District.	29th Jan. No. 314.	....	21st Sept. 1852, Nos. 7, 8. 21st Oct. 1853, Nos. 5, 6. 24th Feb. 1855, Nos. 10—20. 4th Dec. 1857, Nos. 44, 45.	204 & 205
636&637	Endorsement of the Controller of Public Works Accounts, submitting the list of Unanswered References for the half year ended 30th September 1863 together with a Statement of periodical returns, with orders thereon.	29th Jan. No. 315.	....	26th Feb. 1863, No. 494. 27th July 1863, No. 722. 13th Aug. 1863, Nos. 260, 261.	206 & 207

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
		1863.			
638&639	Letter from the Accountant General, requesting that instructions may be issued for auditing the bills that may be submitted by the Collectors for the Establishments maintained in the several Travellers' Bungalows, communicated to the Controller of Public Works Accounts.	29th Jan. No. 316.	....	None.	208
640&641	Superintending Engineers informed that the allotment for each District on account of minor new works is on no account to be exceeded without the previous sanction of Government.	29th Jan. No. 317.	....	25th June 1863, Nos. 565, 566. 23rd Jan. 1864, Nos. 530, 531.	Ibid
642&643	Proceedings Judical Department, forwarding letter from the Inspector General of Jails enclosing copy of his notes on the Tanjore Prison, communicated to the Superintending Engineer, 6th Division.	29th Jan. No. 318.	....	15th Dec. 1863, Nos. 379, 380.	209
644&645	Proceedings Public Department, requesting the preparation in communication with the Superintendent of the Government Museum, of a Plan and Estimate for the erection of a bungalow for the Superintendent in the Museum compound, Presidency District, and stating that the cost should not exceed Rupees 12,000, communicated to the Superintending Engineer, 4th Division.	29th Jan. No. 319.	....	6th June 1863, Nos. 146, 147.	Ibid
646&647	Proceedings Military Department, approving for entry in the Budget of 1864-65 of the Estimate of Rupees 1,000 for purchasing a piece of ground adjoining the Artillery Barracks at Trichinopoly, and adapting it for a Soldiers' garden for the use of the Battery of Artillery, communicated to the Superintending Engineer, 6th Division.	29th Jan. No. 320.	....	None.	Ibid
648&649	Letter from the Government of India, calling for further explanation of the circumstances which necessitate the continued employment of Colonel Ludlow as Consulting Engineer Irrigation and Canal Company, and authorizing the payment of the salary of Rupees 1,500 less the monthly pension of Rupees 372-11-3 to that Officer, temporarily, commencing with September 1863, communicated to the Civil Paymaster.	29th Jan. No. 321.	....	24th Dec. 1863, Nos. 645—647.	209 & 210
650&651	Controller of Public Works Accounts authorized to pass to Captain Molony his salary up to the end of November 1863.	29th Jan. No. 322.	....	None.	210 & 211

1 Index numbers of the Proceedings.	2 Subjects.	3 Dates of Proceedings.	4 Date of report to Secretary of State for India.	5 Numbers and dates of previous Proceedings.	6 Page.
652	Controller of Public Works Accounts informed that the sum of Rupees 1,600 transferred from the Postal Budget on account of the Post Office at Bangalore is to be considered as an addition to the regular allotment for 1863-64.	1864. 29th Jan. No. 323.	....	None.	211
653&654	Superintending Engineer, 1st Division, requested by telegram to communicate direct with Captain Magnay, and enquire if he will take charge of the work of constructing a Táluq Cutcherry and Police station, &c., at Daranjapadi, Ganjam District.	29th Jan. No. 324.	....	23rd Jan. 1864, Nos. 532, 533.	Ibid
655&656	Superintending Engineer, 8th Division, informed that the temporary entertainment of late Sub-Overseer Ramasawmy Asari, is unnecessary.	29th Jan. No. 325.	....	9th Jan. 1864, Nos. 165, 166. 12th Jan. 1864, Nos. 212, 213.	212
657	Commander-in-Chief applied to for the services of Captain J. Magnay, Staff Corps, being placed at the disposal of the Superintending Engineer, 1st Division, for employment in the supervision of the Surada road in the Ganjam District.	29th Jan. No. 326.	....	29th Jan. 1864, Nos. 653, 654.	Ibid

PUBLIC WORKS DEPARTMENT.

Tabular Statement of Matters of Routine for the month of January 1864, Government of Madras.

No.	Subject and Order.	Date of Order.	Dates of previous Orders.
1	Superintending Engineer, 7th Division, requested to transfer at once to the Railway authorities the sum of Rupees 46,331, required for the Pier at Beypore, Malabar District	4th Jan. 1864.	
2	Deputy Auditor and Accountant General requested to issue supplemental credit for January 1864, on the Treasury at Malabar for Rupees 46,331 ...	4th do. do.	
3	Superintending Engineer, 3rd Division, informed that the appointment of Mr. Supervisor Blacker to act as Sub-Engineer, 3rd Class, has been cancelled	4th do. do.	
4	Superintending Engineer, 2nd Division, requested to arrange for Mr. Bigger's joining the Cuddapah District with the least practicable delay... ...	4th do. do.	
5	Superintending Engineer, 4th Division, requested to return certain Proceedings of Government, as they have been cancelled	4th do. do.	
6	Superintending Engineer, 8th Division, informed that nothing is known in the Department of the residence of the late Assistant Overseer Sabapathy Pillay	4th do. do.	
7	Memorandum from the Superintending Engineer, 4th Division, requesting to be furnished with the Plan and Estimate for additions to the Googely bazaar Tanah, Presidency District, dated 23rd December 1863, No. 4,195. Supplied	4th do. do.	
8	Letter from the Superintending Engineer, 8th Division, requesting to be furnished with the Plan and Estimate for the Streevellyputur Táluq Cutcherry, Tinnevelly District, dated 18th December 1863, No. 1,541. Supplied	4th do. do.	
9	Memorandum from the Superintending Engineer, 4th Division, requesting the return of the Survey, &c., sent with his letter No. 3,515 of 1863, relative to Poiney Anicut Southern channel, dated 23rd December 1863 No. 4,196. Supplied.	4th do. do.	
10	Memorandum from the Superintending Engineer, 4th Division, requesting to be furnished with ten extra copies of G. O. No. 3,811 of 1863, dated 26th December 1863, No. 4,288. Supplied ...	4th do. do.	
11	Letter from the Superintending Engineer, 4th Division, requesting to be furnished with spare copies of certain Proceedings of Government, dated 26th December 1863, No. 4,272. Supplied ...	4th do. do.	
12	Estimate of funds required for expenditure on Public Works, salaries and allowances, &c., in January, February and March 1864, forwarded to the Deputy Auditor and Accountant General.	5th do. do.	
13	Letter from the Deputy Auditor and Accountant General, intimating that supplemental credit has been granted for January 1864, on the Treasury at Bellary for Rupees 850, with orders thereon...	5th do. do.	
14	Superintending Engineer, 3rd Division, informed that supplemental credit has been granted for January 1864, on the Treasury at Bellary for Rupees 850	5th do. do.	
15	Supplemental Estimate of cash requirements in the Nellore District, during January 1864, with orders thereon	5th do. do.	

No.	Subject and Order.	Date of Order.	Dates of previous Orders.
16	Deputy Auditor and Accountant General requested to issue supplemental credit for January 1864, on the Treasury at Nellore for Rupees 1,300 ...	5th Jan. 1864.	
17	Letter from the Superintending Engineer, 3rd Division, intimating that he has offered the vacant Táluq Overseership in the Cuddapah District to Mr. Vardon through Captain Tulloch, dated 21st December 1863, No. 240. Lodged	5th do. do.	
18	Memorandum from the Superintending Engineer, 4th Division, returning, duly corrected, the printed proof of the List of Establishment in the Division, dated 31st December 1863, No. 4,322. Lodged	5th do. do.	
19	Letter from the Deputy Auditor and Accountant General, intimating that supplemental credit has been granted for December 1863, on the Treasury at Tanjore, for Rupees 1,390, and that the Treasury Officer has been instructed to pay the letter of credit in January 1864, dated 29th December 1863, No. 57½. Lodged	5th do. do.	
20	Memorandum from the Government of India, requesting to be furnished with copies of Despatches from the Madras to the Home Government, Nos. 58 to 69 of 1863, dated 21st December 1863, No. 5,318. Supplied	5th do. do.	
21	Memorandum from the Superintending Engineer, 1st Division, intimating that the Financial Statements called for of all matters connected with the Godavery and Kistna works has been already furnished, dated 17th December 1863, No. 1,970. Lodged	5th do. do.	
22	The Report of Progress on the several Railway feeders in the Cuddapah District during the quarter ended 31st October 1863, forwarded to the Superintending Engineer, 3rd Division, for revision	6th do. do.	
23	Superintending Engineer, 7th Division, informed that application should be made for the transfer of Lieutenant A. J. Filgate, and that in the list of the Establishment of his Division, Mr. Supervisor Walton stands posted to South Canara which is a mistake...	6th do. do.	
24	Letter from the Deputy Auditor and Accountant General, intimating that supplemental credit has been granted for January 1864, on the Treasury at Malabar for Rupees 46,331, with orders thereon	6th do. do.	
25	Superintending Engineer, 7th Division, informed that supplemental credit has been granted for January 1864, on the Treasury at Malabar for Rupees 46,331	6th do. do.	
26	Memorandum from the Government of Punjab, forwarding a copy of printed papers on Canal Revenue Establishment, dated 19th December 1863, No. 3,916. Lodged...	6th do. do.	
27	Memorandum from the Superintending Engineer, 4th Division, requesting to be furnished with spare copies of certain Proceedings of Government, dated 26th December 1863, No. 4,275. Supplied	6th do. do.	
28	Letter from the Superintending Engineer, 7th Division, intimating that the survey and Estimate, called for, for the Coorchy road, have been forwarded to the Collector for transmission to Government, dated 1st January 1864, No. 281. Lodged.	6th do. do.	

No.	Subject and Order.	Date of Order.	Dates of previous Orders.
29	Letter from the Commandant of Sappers and Miners, intimating that the list of Officers coming up for the quarterly examination in the Vernacular to be held in January 1864 has been already forwarded, dated 21st December 1863, No. 33A. Lodged	6th Jan. 1864.	
30	Letter from the Deputy Auditor and Accountant General, intimating that supplemental credit has been granted for January 1864, on the Treasury at Nellore for Rupees 1,300, with orders thereon.	7th do. do.	
31	Superintending Engineer, 2nd Division, informed that Supplemental credit has been granted, for January 1864, on the Treasury at Nellore for Rupees 1,300	7th do. do.	
32	Supplemental Estimate of cash requirements in the Kistna District, during January 1864, with orders thereon	7th do. do.	
33	Deputy Auditor and Accountant General required to issue supplemental credit for January 1864, on the Treasury at Kistna for Rupees 777	7th do. do.	
34	Letter from Mr. F. L. Moncrief, Covenanted Civil Engineer, Department Public Works, reporting his arrival at the Presidency, dated 5th January 1864. Lodged	7th do. do.	
35	Superintending Engineers of Divisions requested to submit together with their Lists of Unanswered References for the past half year, the lists of periodical Returns, &c., which are over-due ...	7th do. do.	
36	Superintending Engineers, 4th and 5th Divisions, requested to report whether Overseer Moonesawmy and Velumailu Mudaliars are prepared to proceed to the Kistna or to the Tanjore Districts if appointed to act as Supervisors 2nd Class ...	8th do. do.	
37	Military Department informed of the circumstances under which the usual course was not followed when applying for the services of certain Engineer Officers for employment under the Government of India and Bombay	8th do. do.	
38	Supplemental Estimate of cash requirements in the Malabar District during January 1864, with orders thereon	8th do. do.	
39	Deputy Auditor and Accountant General requested to issue supplemental credit, for January 1864, on the Treasury at Malabar for Rupees 1,209 ...	8th do. do.	
40	Mr. Sub-Engineer Hawkins' resignation of his appointment accepted, and the Superintending Engineer, 3rd Division, requested to submit an application for gratuity on behalf of that Officer with a statement of his services under Government...	9th do. do.	
41	Captain F. J. Moberly requested to forward to the Superintending Engineer, 7th Division, the standard Plans forwarded to him, with Memorandum No. 52 of 1863	9th do. do.	
42	Proceedings Pension Department, granting a gratuity of three months' salary to Mr. R. E. Norfor, late 2nd Assistant District Engineer, Salem, communicated to the party concerned ...	9th do. do.	
43	Letter from the Deputy Auditor and Accountant General, intimating that supplemental credit has been granted for January 1864, on the Treasury at Kistna for Rupees 777, with orders thereon ...	9th do. do.	

No.	Subject and Order.	Date of Order.	Dates of previous Orders.
44	Superintending Engineer, 2nd Division, informed that supplemental credit has been granted for January 1864, on the Treasury at Kistna for Rupees 777	9th Jan. 1864.	
45	Letter from the Collector of Godavery acknowledging the receipt of ten Cheque books, dated 1st January 1864, No. 1. Lodged	9th do. do.	
46	Letter from the Superintending Engineer, 1st Division, intimating that no alterations have been made in his Division during December 1863, except in the case of Mr. Sub-Engineer H. Irving who has been posted to the Ganjam District, dated 31st December 1863, No. 1,000x. Lodged ...	9th do. do.	
47	Endorsement of Mr. R. Kennedy, Special Executive Engineer, submitting his Diary for December 1863, dated 6th January 1864. Lodged... ...	9th do. do.	
48	Letter from the Controller of Public Works Accounts, requesting that Mr. W. B. Leggatt may be gazetted as Acting Second Assistant Engineer, to enable his salary being passed from 18th December 1863, dated 6th January 1864, No. 2,183. Gazetted	9th do. do.	
49	Letter from the Superintending Engineer, 4th Division, returning as directed, certain Proceedings of Government, which have been cancelled, dated 6th January 1864, No. 4,388. Lodged ...	9th do. do.	
50	Gratuity Roll of Mr. G. R. Leggatt, late Acting First Assistant District Engineer in the Ganjam District, forwarded to the Civil Paymaster for submission to Government in the Pension Department, with the usual report	9th do. do.	
51	Letter from the Deputy Auditor and Accountant General, intimating that supplemental credit has been granted for January 1864 on the Treasury at Malabar for Rupees 1,200, with orders thereon.	11th do. do.	
52	Superintending Engineer, 7th Division, informed that supplemental credit has been granted for January 1864 on the Treasury at Malabar for Rupees 1,200	11th do. do.	
53	Letter from Captain Bean, reporting that he has assumed charge of the Office of the Superintending Engineer, 6th Division, dated 6th January 1864. Lodged	11th do. do.	
54	Minute by the Honorable the President appointing Assistant Commissary Mr. Howard, to be Sub-Engineer, 3rd Class, vice Mr. Hawkins resigned, and Mr. Supervisor J. H. Martin to act as Sub-Engineer, 3rd Class vice Mr. Colquhoun, dated 8th January 1864. Lodged	11th do. do.	
55	Letter from the Superintending Engineer, 6th Division, intimating that he has given over charge of the Division to Captain Bean, dated 6th January 1864. Lodged	11th do. do.	
56	Letter from the Collector of Cuddapah, acknowledging the receipt of nine blank Cheque books, dated 4th January 1864, No. 1. Lodged	11th do. do.	
57	Memorandum from the Superintending Engineer, 4th Division, requesting to be furnished with the list of Local and Imperial lines of roads in the Madras District, dated 8th January 1864, No. 4,443. Supplied	11th do. do.	
58	Minute by the Honorable the President, appointing Mr. W. B. Leggatt to act as Assistant Engineer, 2nd Class, during the absence of Major H. N. D. Prendergast, v. c., or until further orders, dated 8th January 1864. Lodged...	11th do. do.	

No.	Subject and Order.	Date of Order.	Dates of previous Orders.
59	Supplemental Estimates of cash requirements in the Coimbatore and Malabar Districts, during January 1864, with orders thereon...	11th Jan. 1864.	
60	Deputy Auditor and Accountant General requested to issue supplemental credits for January 1864, on the Treasuries at Coimbatore and Malabar for Rupees 750 and 3,000 respectively	11th do. do.	
61	Deputy Auditor and Accountant General informed that the Estimate of cash requirements of the Public Works Secretariat for 1864-65 was forwarded to the Chief Secretary on the 12th December 1863, and that the Public Works Budget for that year is under preparation.	12th do. do.	
62	Superintending Engineer, 4th Division, informed that the List called for in Memorandum No. 35 of January 1864, was intended to show not only the returns *over-due*, but also all those which are periodically submitted to Government	12th do. do.	
63	Principal of the Civil Engineering College requested to ascertain and report whether Corporal Tate is prepared to accept an appointment of Táluq Overseer...	12th do. do.	
64	Letter from the Collector of Kurnool acknowledging the receipt of nine Blank Cheque Books, dated 4th January 1864, No. 1. Lodged ...	12th do. do.	
65	Superintending Engineer, 7th Division, requested to submit the Plan and Estimate, called for, for a Court House at Ootacamund, Coimbatore District	12th do. do.	
66	Secretary to the Board of Revenue, Consulting Engineer Irrigation and Canal Company, and Controller of Public Works Accounts, requested to submit their Lists of Unanswered References for the half year ended 31st December 1863, together with a Statement of Returns which are periodically submitted to Government...	12th do. do.	
67	Proceedings Pension Department, granting gratuities to Messrs. D'Sylva, Romeo, &c., of the late Chief Engineer's Office, dated 12th January 1864, No. 13. Lodged	13th do. do.	
68	Letter from the Deputy Auditor and Accountant General intimating that Supplemental credits have been granted for January 1864, on the Treasuries at Coimbatore and Malabar for Rupees 3,750...	13th do. do.	
69	Superintending Engineer, 7th Division, informed that supplemental credits have been granted for January 1864, on the Treasuries at Coimbatore and Malabar for Rupees 3,750...	13th do. do.	
70	Chief Secretary to Government informed that the Plan and Estimate called for, for a Court House at Ootacamund, Coimbatore District, have not yet been received	15th do. do.	
71	Proceedings Pension Department, granting a gratuity of three months' salary to Mr. E. G. Ricketts, late 1st Assistant District Engineer, Trichinopoly, communicated to the party concerned... ...	15th do. do.	
72	Mr. Fraser requested to inform Mr. Ottman that his claims to promotion will be considered in due course...	16th do. do.	
73	Letter from the Superintending Engineer, 5th Division, intimating that Overseer Velumailu Mudali is unwilling to leave his Táluq even if he is appointed to act as Supervisor, 2nd Class, dated 11th January 1864, No. C. Lodged	16th do. do.	

No.	Subject and Order.	Date of Order.	Dates of previous Orders.
74	Letter from the Superintending Engineer, 6th Division, recommending that the Estimates for repairing and extending the Davodanum Christian Burial ground, Trichinopoly District, be sanctioned from the Reserve, dated 8th January 1864, No. 1,484. Lodged...	16th Jan. 1864.	
75	Letter from the Government of India requesting to be furnished, when finally revised and executed with a copy of the Agreement, for the formation of Street Railways in the town of Madras, dated 29th December 1863, No. 5,399. Lodged.	16th do. do.	
76	Letter from the Superintending Engineer, 6th Division, reporting his arrival at the Presidency prior to embarkation to Europe, dated 12th January 1864. Lodged	16th do. do.	
77	Letter from the Collector of Godavery, acknowledging the receipt of eighteen Cheque Books, dated 1st January 1864, No. 2. Lodged...	16th do. do.	
78	Telegram from Captain Ryves, Calcutta, requesting to be furnished with a copy of the Public Works Code, dated 13th January 1864. Supplied ...	16th do. do.	
79	Memorandum from the Deputy Collector, Vizagapatam, acknowledging the receipt of nine Cheque Books, dated 4th January 1864, No. 1. Lodged.	16th do. do.	
80	Letter from the Principal of the Civil Engineering College, stating that Corporal Tate is prepared to accept the post of Táluq Overseer when the result of the examination for B. C. E. degree is known, dated 14th January 1864. Lodged	16th do. do.	
81	Letter from the Controller of Public Works Accounts, stating the grounds on which he passed the expenditure on account of the Ongole and Kotapatam road, Nellore District, dated 13th January 1864, No. 2,252. Lodged	16th do. do.	
82	Thirteen copies of the Annuals of Indian Administration, Part IV, Vol. VII, distributed to certain Officers...	16th do. do.	
83	Supplemental Estimates of cash requirements in the Bellary and South Arcot Districts, during January 1864, with orders thereon	18th do. do.	
84	Deputy Auditor and Accountant General requested to issue supplemental credits for January 1864, on the Treasuries at Bellary and South Arcot, for Rupees 6,000	18th do. do.	
85	Supplemental Estimate of cash requirements in the Bellary District, during January 1864, with orders thereon...	18th do. do.	
86	Deputy Auditor and Accountant General requested to issue supplemental credit for January 1864, on the Treasury at Bellary, for Rs. 1,000 ...	18th do. do.	
87	Memorandum from the Government of India, returning the enclosures submitted with letter No. 3,222 of 1863 on the subject of Street Railways in Madras, dated 8th January 1864, No. 146. Lodged	18th do. do.	
88	Letter from the Superintending Engineer, 3rd Division, stating that no definite instructions have been issued regarding periodical returns to be submitted by the Officers of his rank, and that the list of Unanswered References for the past half year has been already despatched, dated 13th January 1864, No. 260. Lodged	18th do. do.	
89	Letter from the Superintending Engineer, 3rd Division, stating that Mr. Vardon joined the Cuddapah District, on the 9th January 1864, dated 13th January 1864, No. 259. Lodged	18th do. do.	

No.	Subject and Order.	Date of Order.	Dates of previous Orders.
90	Letter from the Superintending Engineer, 3rd Division, recommending the reinstalment of Mr. Blacker in his former position on the occurrence of a vacancy among Sub-Engineers, dated 13th January 1864, No. 261. Lodged	18th Jan. 1864.	
91	Letter from the Consulting Engineer Irrigation and Canal Company, requesting that until further notice all letters to his address may be sent to Cuddapah, dated 15th January 1864, No. A. Lodged	18th do. do.	
92	Mr. Kennedy, Special Executive Engineer, informed that there is no objection to his furnishing the Editor of the Newspaper who has applied to him with a copy of his report upon the back-waters and Canals of Cochin	19th do. do.	
93	Superintending Engineer, 6th Division, authorized to appoint a person permanently to the late Supervisor Kistniah's substantive post of Táluq Overseer	19th do. do.	
94	Superintending Engineer, 4th Division, informed that there is no order placing the Shadayancoppum Lock Establishment under the direct and Special Control of the Officers of the Public Works Department	19th do. do.	
95	Letter from the Superintending Engineer, 1st Division, bringing to notice the delay in his receiving the Letters of Credit, and making certain suggestion in connection with the same, dated 8th January 1864, No. 304. Lodged	19th do. do.	
96	Letter from the Superintending Engineer, 7th Division, drawing the attention of Government to its Proceedings No. 2,455 of 1863, transferring Lieutenant Filgate and Mr. Smith to Canara and Malabar respectively, and stating that Messrs. Walton and McDonough were permitted to exchange Districts and Ranges at their own request, dated 14th January 1864, No. 298. Lodged.	19th do. do.	
97	Endorsement of the Assistant Engineer, Coimbatore, submitting the Report of progress made from 1st to 15th January 1864 in improving the road from the Railway Station at Pothanoor to the foot of the Coonoor Ghát, dated 16th January 1864. Lodged	19th do. do.	
98	Estimates of cash requirements in certain Districts, during February 1864, with orders thereon ...	19th do. do.	
99	Deputy Auditor and Accountant General requested to issue credits for February 1864, on certain Treasuries for Rupees 7,68,529...	19th do. do.	
100	Endorsement of the Superintending Engineer, 1st Division, submitting the Report of progress made during December 1863, in constructing the Central Jail at Rajahmundry, Godavery District, dated 12th January 1864. Lodged...	20th do. do.	
101	Letter from the Deputy Auditor and Accountant General intimating that supplemental credits have been granted for January 1864 on the Treasuries at Bellary and South Arcot, for Rupees 7,000, with orders thereon	20th do. do.	
102	Superintending Engineer, 5th Division, informed that supplemental credit has been granted for January 1864, on the Treasury at South Arcot, for Rupees 3,000...	20th do. do.	

No.	Subject and Order.	Date of Order.	Dates of previous Orders.
103	Superintending Engineer, 3rd Division, informed that 2nd supplemental credit has been granted for January 1864, on the Treasury at Bellary for Rupees 1,000	20th Jan. 1864.	
104	Superintending Engineer, 3rd Division, informed that supplemental credit has been granted for January 1864, on the Treasury at Bellary, for Rupees 3,000	20th do. do.	
105	Supplemental Estimate of cash requirements in Bangalore, during January 1864, with orders thereon...	20th do. do.	
106	Deputy Auditor and Accountant General requested to issue supplemental credit for January 1864, on the Treasury at Bangalore for Rupees 7,000.	20th do. do.	
107	Estimates of cash requirements in the Ganjam and Vizagapatam Districts, during February 1864, with orders thereon...	20th do. do.	
108	Deputy Auditor and Accountant General, requested to issue credits for February 1864 on the Treasuries at Ganjam and Vizagapatam, for Rs. 53,340.	20th do. do.	
109	Letter from the Superintending Engineer, 2nd Division, intimating that Mr. Biggers was relieved from the Executive charge of the Southern Range, Nellore District, and that he reported his departure to Cuddapah, dated 15th January 1864, No. 43. Lodged	21st do. do.	
110	Telegram from the Superintending Engineer, 2nd Division, stating that there will be a saving of 10,000 Rupees, from the Budget allotment for the repair of tanks in Nellore, dated 20th January 1864. Lodged.	21st do. do.	
111	Memorandum from the Superintending Engineer, 4th Division, requesting to be furnished with the Plan of the proposed Record room for the Collector's Cutcherry at Saidapett, Madras District, dated 19th January 1864, No. 4,610. Supplied...	21st do. do.	
112	Superintending Engineer, 5th Division, informed that Mr. Graham was not promoted to the rank of Sub-Engineer, 2nd Class, and all Superintending Engineers requested to state clearly, in the Quarterly Returns, the grounds of recommendation in favor of their Subordinates	22nd do. do.	
113	Letter from the Deputy Auditor and Accountant General intimating that credits have been granted for February 1864, on certain Treasuries for Rupees 7,68,529, with orders thereon	22nd do. do.	
114	Superintending Engineer, 1st Division, informed that credit has been granted for February 1864, on the Treasury at Godavery for Rupees 1,03,500.	22nd do. do.	
115	Superintending Engineer, 2nd Division, informed that credit has been granted in his favor for February 1864, for Rupees 80,311, and that certain alteration should be made in the next Estimate for the Nellore District	22nd do. do.	
116	Superintending Engineer, 2nd Division, informed that credit has been granted in his favor, for February 1864, for Rupees 99,668	22nd do. do.	
117	Superintending Engineer, 4th Division, informed that credit has been granted in his favor, for February 1864, for Rupees 1,43,450	22nd do. do.	
118	Superintending Engineer, 5th Division, informed that credit has been granted in his favor for February 1864, for Rupees 75,396, and that the sum sanctioned in G. O. No. 3,595 of 1863 should have been added to the Salem allotment	22nd do. do.	

No.	Subject and Order.	Date of Order.	Dates of previous Orders.
119	Superintending Engineer, 6th Division, informed that credit has been granted in his favor for February 1864, for Rupees 67,544, and certain inaccuracies pointed out	22nd Jan. 1864.	
120	Superintending Engineer, 7th Division, informed that credit has been granted in his favor for February 1864, for Rupees 1,32,170, and certain inaccuracies pointed out.	22nd do. do.	
121	Superintending Engineer, 8th Division, informed that credit has been granted in his favor, for February 1864, for Rupees 64,690.	22nd do. do.	
122	Officer in charge of the Public Works Store Department informed that credit has been granted in his favor for February 1864, for Rupees 2,000. ...	22nd do. do.	
123	Certain arrangements made owing to the Controller of Public Works Accounts proceeding to Calcutta on special duty.	22nd do. do.	
124	Supplemental Estimates of cash requirements in the Kistna and Trichinopoly Districts during January 1864, with orders thereon.	22nd do. do.	
125	Deputy Auditor and Accountant General requested to issue supplemental credits for January 1864, on the Treasuries at Kistna and Trichinopoly for Rupees 8,395.	22nd do. do.	
126	Letter from the Deputy Auditor and Accountant General intimating that credits have been granted for January 1864, on certain Treasuries for Rupees 60,340, with orders thereon	22nd do. do.	
127	Superintending Engineer, 1st Division, informed that credits have been granted for February 1864, on the Treasuries at Ganjam and Vizagapatam for Rupees 63,340, and a certain inaccuracy pointed out.	22nd do. do.	
128	Superintending Engineer, 5th Division, informed that supplemental credit has been granted for January 1864, on the Treasury at Bangalore, for Rupees 7,000.	22nd do. do.	
129	Messrs. Arbuthnot & Co. informed of the supposed address of Major General W. I. Birdwood.	22nd do. do.	
130	Letter from the Superintending Engineer, 7th Division, submitting an application from Lieutenant Trail, Assistant Engineer in charge of the Coimbatore Range, for six months' sick leave, dated 14th January 1864, No. 296. Granted	22nd do. do.	
131	Endorsement of the Controller of Public Works Accounts stating that Lieutenant Colonel H. W. Hitchins, Superintending Engineer, 5th Division, is eligible to one month's privilege leave, dated 19th January 1864, No. 1. Granted	22nd do. do.	
132	Letter from the Superintending Engineer, 7th Division, forwarding one from Captain Hankin requesting to have his leave cancelled retrospectively from 1st December 1863, dated 18th January 1864, No. 310. Notified accordingly.	22nd do. do.	
133	Letter from the Principal of the Civil Engineering College forwarding statements showing the results of the examination of the Students of the 1st Department of the College for the grade of Assistant Engineer, Department Public Works, dated 18th January 1864, No. 758. Notified accordingly. ...	22nd do. do.	
134	Endorsement of the Deputy Secretary to Government Financial Railway Department, transferring the Report of Progress made from the 16th to 31st December 1863, on the road from Pothanoor to the foot of the Coonoor Ghát, Coimbatore District, dated 11th January 1864. Lodged ...	25th do. do.	

No.	Subject and Order.	Date of Order.	Dates of previous Orders.
135	Letter from the Principal of the Civil Engineering College forwarding the duplicate of a certificate granted to Mr. John O'Leary at Cuddapah as having passed the examination for the grade of Táluq Overseer, dated 22nd January 1864, No. 772. Lodged.	25th Jan. 1864.	
136	Proceedings in the Financial Railway Department communicating endorsement of the Government of Bombay forwarding a list of Errata in the Revenue Account of the Indus Steam Flotilla Company for the half year ended 31st December 1862, dated 22nd January 1864, No. 60. Lodged. ...	25th do. do.	
137	Letter from the Superintending Engineer, 4th Division, recommending the retention of Overseer Mooneasawmy in the Chittoor Range, North Arcot District, dated 22nd January 1864, No. 4,658. Lodged.	25th do. do.	
138	Minute by the Honorable the President proposing certain appointments in the grade of Assistant Engineer, dated 22nd January 1864. Lodged. ...	25th do. do.	
139	Endorsement of the Superintending Engineer, 3rd Division, forwarding copy of the certificate given by the Principal of the Civil Engineering College to Mr. John O'Leary, as having passed the examination for the grade of Táluq Overseer in the Department Public Works. Lodged.	25th do. do.	
140	Memorandum from the Civil Paymaster requesting to be informed of the Department in which P. Venkatakistnama Naidoo, recommended for pension, has been employed from 1st February 1839 to 31st January 1840, dated 11th December 1863, No. 700. Lodged.	25th do. do.	
141	Letter from the Superintending Engineer, 3rd Division, intimating the despatch of the Income Tax and Local Fund Budgets to Government and the Collectors concerned respectively, dated 18th January 1864, No. 270. Lodged.	25th do. do.	
142	Letter from the Superintending Engineer, 7th Division, recommending the cancelment of the unexpired portion of Captain Vertue's leave granted him on the 30th October 1863, dated 19th January 1864, No. 22. Notified accordingly.	25th do. do.	
143	Letter from the Deputy Auditor and Accountant General intimating that supplemental credits have been granted for January 1864, on the Treasuries at Kistna and Trichinopoly, for Rupees 8,395. ...	25th do. do.	
144	Superintending Engineer, 2nd Division, informed that supplemental credit has been granted for January 1864, on the Treasury at Kistna, for Rupees 7,895, and certain explanation called for in connection with the same.	25th do. do.	
145	Superintending Engineer, 6th Division, informed that supplemental credit has been granted, for January 1864, on the Treasury at Trichinopoly for Rupees 500.	25th do. do.	
146	Certain arrangements made consequent on the promotion of Assistant Commissary M. Howard and Mr. J. H. Martin and the death of Kistnah. ...	25th do. do.	
147	Superintending Engineer, 3rd Division, informed that the Reading-room, Library, and Coffee-room for the D Battery, 3rd Royal H. Brigade, &c., at Bellary, may progress, but that no funds in addition to the sum of Rupees 78,960 already provided for can be granted in 1863-64.	25th do. do.	

No.	Subject and Order.	Date of Order.	Dates of previous Orders.
148	Consulting Engineer Irrigation and Canal Company requested to submit the Budget Estimates for 1864-65.	25th Jan. 1864.	
149	Gratuity Roll of V. Narainasawmy Moodelly of the late Central Office forwarded to the Civil Paymaster for submission to Government in the Pension Department with the usual report.	25th do. do.	
150	Letter from the Superintending Engineer, 8th Division, explaining the cause of a wrong order being quoted in his No. 1,492 of 1863, dated 16th January 1864, No. 1,674. Lodged.	26th do. do.	
151	Letter from the Controller of Public Work Accounts reporting that he has given over charge of his Office to Captain Prendergast, dated 23rd January 1864, No. 2,337. Lodged.	26th do. do.	
152	Telegram from Mr. Boilmaker Nowland, stating that he is unable to proceed to Madras, owing to ill health, dated 22nd January 1864. Lodged. ...	26th do. do.	
153	Letter from Captain H. L. Prendergast reporting that he has taken charge of the Office of the Controller of Public Works Accounts, dated 23rd January 1864, No. 2,338. Lodged.	26th do. do.	
154	Supplemental Estimates of cash requirements in the Kurnool and Bangalore Districts during February 1864, with orders thereon.	26th do. do.	
155	Deputy Auditor and Accountant General requested to issue supplemental credit for February 1864, on the Treasury at Kurnool for Rupees 440... ...	26th do. do.	
156	Deputy Auditor and Accountant General requested to issue supplemental credit for February 1864, on the Treasury at Bangalore for Rupees 1,600. ...	27th do. do.	
157	Superintending Engineer, 2nd Division, requested to submit the Estimate of Local Fund disbursement for the half year ending 30th April 1865, together with the Income Tax Budget List for 1864-65.	27th do. do.	
158	Superintending Engineer, 7th Division, requested to submit the Estimate of Local Fund disbursement for the half year ending 30th April 1865, together with the Income Tax Budget List for 1864-65. ...	27th do. do.	
159	Superintending Engineer, 7th Division, informed that the Plan and Estimate for Rupees 275 for constructing Police huts in the Coimbatore District have been referred to the Judicial Department.	27th do. do.	
160	Twenty printed copies of the Selections from the Records of the Bangalore Government, No. XL, on the subject of the removal of the embankments from the right bank of the Damoodah river, distributed to certain Officers.	27th do. do.	
161	Letter from the Accountant General stating that there is no objection to a supplemental credit being granted for sums over-drawn by Superintending Engineers, against the authorized amounts in letters of credit, dated 25th January 1864, No. 342. Lodged.	27th do. do.	
162	Memorandum from the Secretary to Government Revenue Department, pointing an Erratum in the letter to the Government of India on the subject of Staging Bungalows, dated 25th January 1864, No. 12. Lodged.	27th do. do.	
163	Letter from the Deputy Auditor and Accountant General intimating that supplemental credits have been granted for February 1864, on the Treasuries at Bangalore and Kurnool, for Rupees 2,040, with orders thereon.	28th do. do.	

No.	Subject and Order.	Date of Order.	Dates of previous Orders.
164	Superintending Engineer, 3rd Division, informed that supplemental credit has been granted for February 1864, on the Treasury at Kurnool for Rupees 440.	28th Jan. 1864.	
165	Superintending Engineer, 5th Division, informed that supplemental credit has been granted for February 1864, on the Treasury at Bangalore, for Rupees 1,600.	28th do. do.	
166	Bill from Mr. T. D. Harris for pay due to him from the 1st July to 23rd November 1863, declined to be passed.	28th do. do.	
167	Copies of the Report of the Commissioners appointed to enquire into the sanitary state of the Army in India, received from the Home Government, distributed to certain Officers...	28th do. do.	
168	Memorandum from the Deputy Collector in charge of the Treasury, Ganjam, acknowledging the receipt of nine blank cheque books, dated 18th January 1864. Lodged.	28th do. do.	
169	Letter from the Government of India requesting that, as a rule, ten copies may be furnished of the Budget Estimates, commencing with those of 1864-65, dated 9th January 1864, No. 170. Lodged.	28th do. do.	
170	Major Stoddard informed by Telegram that no Madras Pier Screw Pile is procurable.	28th do. do.	
171	Letter from the Collector of Bellary acknowledging the receipt of nine cheque books, dated 18th January 1864, No. 1. Lodged.	28th do. do.	
172	Letter from the Consulting Engineer Irrigation and Canal Company forwarding the original enclosures submitted with his No. 98 of 1863, on the subject of the monthly expenditure for the Establishment of the Bellary Division, dated 23rd January 1864, No. 134. Lodged	28th do. do.	
173	Proceedings Pension Department sanctioning gratuities of three and four month's pay respectively, to Annasawmy and Canacasabay Mudelliars Clerks of the late Central Office of Public Works, dated 24th January 1864, No. 25. Lodged.	28th do. do.	
174	Minute by the Honorable the President proposing certain officiating appointments in consequence of the Controller of Public Works Accounts proceeding to Calcutta on special duty, dated 26th January 1864, Lodged	28th do. do.	
175	Controller of Public Works Accounts informed that the Income Tax Fund Estimates of the 3rd and 8th Divisions have not been received in this Office.	29th do. do.	
176	Superintendent of the Government Printing Establishment requested to send to this Department the copies of Form No. 1 struck off in April last for the Central Office of Public Works.	29th do. do.	
177	Lieutenant Thompson informed that he is posted to the Coimbatore District and that in regard to acting for Lieutenant Trail the Superintending Engineer should be addressed.	29th do. do.	
178	Letter from the Superintending Engineer, 4th Division, forwarding a list of Returns periodically submitted to Government, dated 19th January 1864, No. 4,605. Lodged.	29th do. do.	
179	Memorandum from the Government of Bombay forwarding five copies of the Annual List of the Establishments in the Public Works Department of the Presidency, dated 19th January 1864, No. 1,612. Lodged.	29th do. do.	

No.	Subject and Order.	Date of Order.	Dates of previous Orders.
180	Proceedings Pension Department sanctioning gratuities of three and four months' salaries to S. Narrainsawmy Naidoo and T. Gunapatri Mudali, of the late Central Office of Public Works Department, dated 27th January 1864, Lodged. ...	29th Jan. 1864.	
181	Memorandum from the Collector of Sea Customs forwarding receipts from the Agent P. and O. S. N. Company for a box containing packet, and stating that it will be despatched to the Home Government by the next Steamer expected from Calcutta, dated 27th January 1864. Lodged. ...	29th do. do.	
182	Copies of the Budget Estimates submitted by the Consulting Engineers Railways and Irrigation and Canal Company for 1864-65, for charges to be met from State Funds, forwarded to the Accountant General.	29th do. do.	

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT,

For the month of January 1864.

No. 1. Read the following letter from Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Madura, 8th December 1863, No. 1,443 :—

1 Letter from the Superintending Engineer, to Secretary to Government, Department Public Works, with three enclosures.
1 Copy of Collector's letter.

* No. 829, dated 4th December 1863.

SIR,

1. I have the honor to forward an Estimate for the completion of the road from Madura to Tondy, which the Collector has declined* to countersign. I have not been favored with his reasons for preferring the direct road to Ramnad, but as I understand that the Government prefer to complete one road before another is commenced, I think it my duty to submit this Estimate at once, the more so that the prices to be paid on works now in progress require to be considered.

2. As regards the direct road to Ramnad I would, however, point out that it follows the river, closely crossing it twice, that the soil is throughout bad, and that the construction of a road would always be difficult and expensive, whereas from this to Shevagunga the soil is good, and for some distance between Shevagunga and Ramnad it continues so, while nearly throughout it is far more easily drained.

3. The subject has been treated of in my No. 669 of 17th September 1863, forwarding the statement of roads proposed to be executed from General and Local Funds, it must be remembered that the Collector has himself entered as one of the Local Fund lines the road running north and south from Caltar near Shevagunga by Yellayangoody to Ramnad, maintaining also

the direct road from Madura as a Government road, while I propose to abandon the construction of the latter at least for the present, and to make the road across from Shevagunga to Yellayangoody and on to Ramnad the main line on the score of economy.

No. 2. ORDER THEREON, 4th January 1864, No. 1.

	Amount of Estimate.	
12th Sept. 1861, No. 1,708 / 18th Oct. ,, ,, 1,920	Rupees 7,016	For bridges and tunnels.
29th Aug. 1862, ,, 2,067	do. 16,000	Earthwork repairs.
18th Nov. ,, ,, 2,780	do. 10,300	Metalling.
	33,316	

In the several Orders noted in the margin, the Government sanctioned three Estimates for the improvement of the road from Madura to Tondy, amounting in the aggregate to Rupees 33,316. The Superintending Engineer, 8th Division, now submits an Estimate of Rupees 93,000 providing for all that he considers necessary to place the entire line in a thoroughly efficient condition. The principle which has guided Captain Moberly in the preparation of this Estimate is that referred to in his letter of 17th September 1863, No. 669, namely, the concentration of imperial funds to the construction of certain important communications in the District to which sufficient attention had not hitherto been given, and the appropriation of Local Funds to lines of minor importance. The Collector and Superintending Engineer are, however, at issue as to the lines to which precedence should be allowed. Captain Moberly's proposals as submitted in his letter of 17th September 1863 above quoted, are the abandonment of the direct line from Madura to Ramnad, and the construction of a branch to the latter place from Shevagunga on the road from Madura to Tondy, the last mentioned line being considerably improved. On a consideration of the arguments advanced by the Superintending Engineer and of the objections urged by the Collector, the Government decided on negativing* the proposals of the former; and it is now observed that Mr. Levinge objects to countersigning the Estimate of Rupees 93,000 for the improvement of the road from Madura to Tondy as he considers that road of far less importance as a Salt line than the one from Madura to Ramnad. Looking to the fact that the Collector must be the most competent to decide on the relative advantages of roads intended to develope the Salt trade, and that the Estimates already sanctioned for improvements to the road from Madura to Tondy are still being worked out, the Government must decline at present to entertain the proposal submitted by Captain Moberly, who will be guided by the opinion of the Collector in the selection of lines required for affording facilities of communication to the trade in Salt.

* 30th November 1863, No. 3,517.

No. 3. Read the following letter from Lieutenant-Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 15th December 1863, No. 4,055:—

SIR,

1. With reference to paragraph 5 of the Proceedings of Government No. 3,206A, dated 3rd November 1863, I have the honor to submit a Statement, as per margin, showing the savings at the Presidency which may *at once* be made use of to meet a part of the balance, Rupees 52,343, required for certain work in that District.

PRESIDENCY.

Savings.						Re-distribution.				
Description of works.	Amount of Estimate.	Date of sanction.	Expenditure up to 30th April 1863.	Amount allowed for the current year.	Saving from the allotment.	Description of other works.	Amount of Estimate.	Date of sanction.	Proposed allotment.	Remarks
	RS.		RS.	RS.	RS.		RS.		RS.	
1. Improving the drainage of Fort Saint George.	67,040	Govt. No. 1,218, 25th May 1859. Do No. 992, 27th May 1861. Do. No. 1,841, 4th August 1861.	27,066	3,000	2,000	Providing room for the confinement of European Prisoners awaiting Trial.	470	Govt. No. 3,397, 20th November 1863.	470	
2. Putting up teakwood weather boards, &c., at the Dewankanah at Chepauk.	2,260	Do. No. 2,721, 12th November 1862.	1,614	646	394	Converting lower story of Bonded Ware House into a Record-room for High Court.	2,000	Do. do.	2,000	
3. Erecting a line of iron railings along the sea face of Government Chepauk compound.	9,850	Do. No. 1,611, 10th July 1862.	7,610	2,222	950					
4. General clearance of Prickly Pears at the Presidency.	6,670	Do. No. 2,034, 26th August 1862.	5,400	1,152	600	Minor alteration to various rooms in High Court	990	Do. do.	990	
5. Constructing a charcoal slip cylinder furnace, &c., at the Gun Powder Manufactory.	3,690	Do. No. 2,932, 6th December 1862	922	2,768	196	Converting Marine Store Godowns into stables and constructing Coach Houses.	* 5,000	Do. do.	700	* 4,300 Rs. allotted in G. O. No. 3,206A, 3rd November 1863.
6. Opening the door-way for communication between Adjutant General's Office and the building vacated by the Military Fund Office in the Fort.	60	District Engineer, 22nd June 1863.	......	60	20					
				Rupees...	4,160			Rupees...	4,160	

2. The savings on the 1st item arise from its having been determined to carry out this year only, the improvement of the Public Privies in the N. E. Blind.

3. In the cases of the 2nd, 3rd, 4th and 5th items, the savings accrue from the works having been completed.

4. The 6th item has been obtained by the Assistant Engineer having been able to make use of old material in carrying out a portion of the work.

No. 1.	Rupees	470
,, 2.	,,	2,000
,, 3.	,,	990
,, 4,	,,	700
	Total Rs.	4,160

5. From the aggregate (Rs. 4,160) of these savings, funds can be provided to the full extent for the four works adverted to in Proceedings of Government No. 3,397, dated 20th November 1863.

Rupees...	52,343
Deduct ,, ...	4,160
	48,183

6. As respects the balance Rupees 48,183, as per margin, still requiring to be provided, a further report will be shortly submitted as to the source from which funds will be forthcoming for them as well as to meet the amount, Rupees 1,400, referred to in my letters of the 21st November 1863, Nos. 3,518 and 3,519.

Alteration to Salar-Ool-Moolk's House, Chepauk.	Rs. 400
Do. Grand Jail	,, 1,000
Total Rs.	1,400

No. 4. ORDER THEREON, 4th January 1864, No. 2.

The Government sanction the appropriation of the savings reported in this letter to the works specified in the margin of paragraph 1.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 5. Read the following letter from Captain E. A. FOORD, R. E., Superintending Engineer, 6th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Tanjore, 20th November 1863, No. 1,180 :—

SIR,

1. With reference to Order of Government No. 3,191 of the 2nd instant, I have the honor to submit the following particulars and information regarding the extension of the Weyacondam Channel.

2. The amount already expended out of the sanctioned Estimate, viz. :—

		RS.	
Estimate entered in Budget of 1854-55		34,131	
Do. sanctioned by Government on 25th April 1856 ...		4,000	
			38,131
Is as follows :—			
1. On the excavation of the old channel		28,019	
2. On masonry works.		4,085	
3. On branch channels, Tanjore.	2,478		
Trichinopoly	3,767		
		6,245	
4. Repairs and improvements of tanks, Tanjore ...	349		
Trichinopoly ...	308		
		657	
Total ...			39,006
5. The cost of completing the channel to the proper depth (bed slope 6" per mile) for a width of four yards. ...		20,270	
Excavation of channel masonry works.		3,510	
			23,780

No. 6. ORDER THEREON, 4th January 1864, No. 3.

1. In this letter, the Superintending Engineer, 6th Division, reports that the probable cost of completing the Weyacondam Channel, in the Trichinopoly District, with a width of four yards, will be Rupees 23,780. The Estimate previously submitted by the Superintending Engineer, which provided for completing the channel with a width of eight yards, amounts to Rupees 38,670.

2. The Government are satisfied that it will be sufficient at present to give the channel a width of four yards, and they will be prepared to sanction the Estimate, when submitted, for entry in the Budget of 1864-65. The Superintending Engineer is therefore requested to have the Estimate re-cast, and to forward it as soon as possible.

(Signed) CHARLES A, ORR, Colonel, R. E.,
Secretary to Government.

No. 7. Read the following letter from Lieutenant-Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 12th December 1863, No. 3,999 :—

SIR,

I have the honor to request that under the explanations entered opposite to each, the following items may be allowed to be struck out from the List of Unanswered References of this Division.

No. and date.	Particulars.	Remarks.
142, 5th April 1855. 397, 6th May 1858. 335, 18th " " 2,326, 28th Sept. 1859.	Calling for Lieutenant Chambers' final report regarding the branch canal to the beach.	See Mr. Kennedy's report submitted with Superintending Engineer's Endorsement No. 3,665, dated 30th November 1863.
2.262, 20th Sept. " 2,876, 12th Dec. "	To submit Plans and Estimates for the canal from the Medical College at the south-east end of Black Town to the Light House.	This appeared to have been intended to be taken up in connection with, and as a feeder to the Junction Canal, and should be laid aside until that work is sanctioned.
1,080, 11th June 1861.	To submit Plan and Estimate for the repair of the Pommel tank.	This subject has been made over to Mr. Fraser, Special Executive Engineer.
2,328, 18th Dec. 1861.	To submit the requisite Plans, &c., for the restoration of the Pommel tank near Palaveram.	
317, 26th Feb. 1862.	To expedite the submission of an Estimate for the removal of the Arsenal, Gun Powder and Gun Carriage Manufactories to Saint Thomas' Mount.	*Vide* G. O. Military Department, No. 2,020, dated 22nd June 1863, concurring with the Commander-in-Chief as to the impolicy of removing the Arsenal and Ordnance Manufactory Establishments from the Presidency to Saint Thomas' Mount.
746, 12th April 1862.	To submit revised Estimate for the Anicut and supply channel to the Red Hill tank.	This subject may be considered as having been made over to Mr. Fraser, Special Executive Engineer.
1,983, 20th Aug. 1862.	Calls for a report on the project of bringing water into Madras by means of an Anicut across the Cortilliar river near the Railway bridge.	Do. do. do.
2,098, 3rd Sept. 1862. 2,495, 20th Oct. "	To submit a report on the effects of floods on the East Coast Canal.	This report was furnished by the Deputy Chief Engineer on the 18th September 1862, with his Endorsement No. 145 as in 2nd G. O. of columns Nos. 1 and 2. The Plans required, if not yet furnished, are due from the 2nd Division.
2,361, 2nd Oct. 1862.	To inform whether the Estimate for the Elephant Gate bridge is likely to be exceeded by that for the General Hospital bridge; and if so, by what amount.	The question seems to be no longer applicable, a revised Estimate having been sanctioned by Government. *Vide* Proceedings of Government No. 3,444, dated 24th November 1863. Estimate of General Hospital bridge is ... ... RS. 11,070 Do. for Elephant Gate bridge is ... ... 7,780 Excess of former ... 3,290

No. and date.	Particulars.	Remarks.
2,469, 15th Oct. 1862.	To submit the Plans and Levels of the Chumbrumbakum and Red Hill tanks.	This subject may be considered as having been transferred to Mr. Fraser, Special Executive Engineer.
3,057, 22nd Dec. 1862.	To submit a Plan and Estimate for the erection of a new Chemical Laboratory.	This subject has taken a new phase since last year. Plans and Estimates have already been submitted for additions and improvements to the Medical College, including Chemical Laboratory; they were returned for revision and will shortly be furnished. *Vide* Proceedings of Government No. 2,409, dated 25th August 1863.
281, 3rd Feb. 1863.	To submit Plans and Estimate for the erection of a Provincial Lunatic Asylum.	*Vide* G. O. Public Works Department No. 3,362, dated 18th November 1863, ruling that the order was not intended for this Division.
1,539, 15th June 1863.	To submit an Estimate for the road from Tirukalikoondram to Pyanoor Salt Pans in the Madras District.	This Estimate was cancelled in G. O. No. 2,375, dated 24th August 1863, and a road to Sadras substituted for it which was sent to the Collector of Madras for approval on the 18th November 1863, No. 3,374.
1,654, 24th June 1863.	Calling for an Estimate for erecting a verandah along the west front of the upper and lower stories of the building used by the Revenue Board at Chepauk.	This Estimate may be considered as cancelled as an upper story on the east and part of the north face of the Dewan Khánah has been sanctioned. *Vide* G. O. No. 3,184, dated 2nd November 1863.
310, 5th Feb. 1863.	To report whether there are not some bridges to be constructed in which iron lattice might be adopted.	Reported on in Superintending Enneer's letter No. 2,370, dated 11th September 1863.

MADRAS,
Superintending Engineer's Office,
4th Division,
12th December 1863.

(Signed) A. J. M. BOILEAU, Lieut.-Colonel, R. E.,
Superintending Engineer, 4th Division.

No. 8. ORDER THEREON, 4th January 1864, No. 4.

No. 3,057, dated 22nd December 1862.
,, 1,654, ,, 24th June 1863.
,, 2,326, ,, 28th September 1859.

1. With the exception of those marginally noted, the Governor in Council authorizes the omission of the Orders specified in the foregoing letter from the future Unanswered Reference Lists of the Superintending Engineer, 4th Division.

2. The Proceedings of Government No. 3,057, dated 22nd December 1862, will be retained in the Superintending Engineer's list until final orders are passed on the subject.

* No. 1,923, dated 24th October 1863, Revenue Department.

No. 1,654, dated 24th June 1863.

3. Reference will be made to the Revenue Department to ascertain whether in consequence of the sanction accorded* to the Estimate of Rupees 10,460, for constructing an upper story on the east and part of the north face of Dewan Khanah for the use of the Members and Secretary of the Board of Revenue, the Orders marginally noted may be considered cancelled.

4. Separate orders will be passed regarding the requisition contained in Proceedings No. 2,326, dated 28th September 1859.

5. The following Orders will hereafter be entered against Mr. Fraser (Special Executive Engineer) in the Unanswered Reference Registers of this Department, and he will be furnished with copies of such of them as have not already been communicated to him :—

No. 1,080, 11th June 1861. No. 2,328, 18th December 1861.	To submit Plan and Estimate for the restoration of the Pommel Tank near Palaveram.
No. 746, 12th April 1862.	To submit revised Estimate for the Anicut across the Cortilliar river and supply channel to the Red Hill Tank.
No. 1,983, 20th August 1862.	To submit a report on the project of bringing water into Madras by means of an Anicut across the Cortilliar river near the Railway bridge and by the channels excavated for the formation of the Railway embankments.
No. 2,469, 15th October 1862.	To submit the plans and levels of the Chumbrumbaukum and Red Hill Tanks.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Read the following papers :—

No. 9. From Lieutenant-Colonel C. V. WILKIESON, R. E., Controller and Auditor of Public Works Accounts, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 17th November 1863, No. 1,892.

SIR,

Adverting to Chapter IX, paragraph 13, and Chapter XIX, paragraph 2, of the new Code, I have the honor to submit for the consideration and orders of Government, the enclosed Bill amounting to Rupees 613-1-2 for the repairs of Charmady Ghát road in the South Canara District. From the certificates therein given it will be observed that the work in question was never examined during progress by the Range Officer, and that it was executed under a fraudulent Sub-Overseer* since dismissed.

1 Bill.

* Ram Row.

Repairs to Charmandy Ghát Road, South Canara District.

1. The Superintending Engineer, 2nd Division, is requested to call upon Lieutenant Smalley to explain his Proceedings in connection with the work marginally noted.

2. The Superintending Engineer will be good enough to direct Lieutenant Smalley's particular attention to Lieutenant-Colonel Walker's remark at the foot of the enclosed Bill.

Chepauk, (Signed) CHARLES A. ORR, Colonel, R. E.,
18th November 1863. *Secretary to Government, P. W. D.*

To the Superintending Engineer, 2nd Division with enclosure, with a request that the papers may be returned with Lieutenant Smalley's explanation.

No. 10. Memorandum from the Superintending Engineer, 1st Division, dated Waltair, 7th December 1863, No. 1,848.

Memorandum from the Assistant Engineer, Godavery, dated Ellore, 28th November 1863.

1. With reference to order of Secretary to Government, Public Works Department, dated 18th November 1863, my explanation of my proceedings in connection with repairs of the Charmady Ghát road in South Canara is very simple. The work was stated to have been begun on the 1st May 1862 and completed on the 31st August 1862. I quitted the South Canara District on the 19th June 1862, and was in charge of the work only seven weeks. Lieutenant Fraser is in error in stating that he had only joined one month before its completion (vide Certificate). The reason of my never having seen the work from the 1st May to the 18th June 1862 will be at once evident from the following remarks.

2. On the 1st May 1862 I was not only in charge of No. 1 Range in which the work lies, but of the District and of No. 2 Range, having taken charge of the District and No. 1 Range from Captain F. J. Moberly, R. E., on the 1st April; previous to 1st April I had nothing to do with No. 1 Range being in charge of No. 2 alone. Under these circumstances it was perfectly impossible for me to visit every work in the District. I inspected only the more important; the work in question can hardly be considered one of great importance when the grant was only Rupees 613, and I do not think much even of this was spent before my departure from Canara. Moreover, on the 1st May 1862 I was at Mercara inspecting the Sumpagee Ghát, from thence I hurried viâ Mangalore to Agoontee (some 150 miles) to give over charge of the District to Lieutenant-Colonel Walker, R. E., as requested by him; that Officer arrived at Agoontee on the 15th May and took charge on the 16th of the Office, but I had to proceed to Mangalore to give him over the stores, &c., and this was not settled till the 22nd May. In the meantime, viz., on the 16th May, I was gazetted as transferred to Nellore District, and Lieutenant Fraser appointed to South Canara; he arrived at Mangalore on the 10th June, and from that day till the 19th I was giving over charge to him; the work in question was too far for us to examine together, the rains moreover having fairly set in.

3. This reduces, therefore, the time in which I *could* have visited the work to 19 days and during those I was in daily expectation. Further, from the 22nd to 31st May I was inspecting the Mungerabad road to more than 50 miles from Mangalore, and also some minor works near Mangalore, and besides from 1st May till the day of my departure I was timely engaged in clearing off the Bills of 1861-62, and I think they were all sent in except one before I left. I think the foregoing remarks cannot but be satisfactory to Government, as explaining my never having inspected the Charmady Ghát. As to the fraudulence of the Sub-Overseer in charge of the work in May 1862, I can only say that he was not detected in any fraudulent act up to the date of my leaving Canara, and that such work done under his charge as was examined by me was satisfactory as to execution and expenditure.

(Signed) H. SMALLEY, Lieutenant, R. E.,
Assistant Engineer, Godavery.

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1 Bill.
1 Comptroller's letter and Secretary's Endorsement.
1 Explanatory Memorandum from Lieutenant J. Makgill, R.E.

The undersigned does himself the honor of enclosing the accompanying papers to the Secretary to Government, Department Public Works.

(Signed) O. W. S. CHAMBERS, Captain, R. E.,
Superintending Engineer, 1st Division.

No. 11. ORDER THEREON, 4th January 1864, No. 5.

Under the explanation furnished by Lieutenant Smalley, the Controller and Auditor of Public Works Accounts is authorized to pass the Bill amounting to Rupees 613-1-2 submitted with his letter No. 1,892, dated 17th November 1863, recorded above, for the repairs of the Charmady Ghát road in the South Canara District.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 12. Read the following Proceedings of the Board of Revenue, dated 4th December 1863, No. 7,624 :—

Read the following letter from J. W. B. DYKES, Esq., Collector of Nellore, to W. HUDLESTON, Esq., Secretary to the Board of Revenue, dated 29th October 1863, No. 357 :—

SIR,

1. I have the honor to acknowledge the receipt with Board's Endorsement of the Orders of Government of the 24th July (No. 2,034), directing me to call on the Tahsildar of Atmakuru for an explanation of the cause of delay in procuring fuel for burning bricks for the masonry works on the Dornal road.

2. The applications were received in July and June last year.

Letter from the Sub-Collector in charge of Nellore, No. 206, dated 18th August 1862, recorded in the Board's Proceedings of the 25th idem, No. 5,620.
Collector's letter No. 310, dated 5th December 1862, recorded in Board's Proceedings of the 18th idem, No. 8,238.
Proceedings of the Board of Revenue, dated 16th April 1863, No. 2,195.
* Collector's letter No. 279, dated 31st August 1863, with the correspondence therewith submitted, recorded in the Board's Proceedings of the 12th ultimo, No 5,756.

3. And from the Tahsildar's explanation it appears that some 130 Tamarind trees, 300 Tumma trees (Babul), 60 cart loads of firewood, and a certain number of acres of the latter class of fuel were altogether applied for.

4. As regards the Tamarind trees, I beg to refer the Board to the correspondence noted marginally.

5. As regards the Tumma trees, it is also my duty to refer to correspondence* of considerable length.

6. And in stating that the application for 60 bandies of firewood was made on the 16th June, and the requisite orders issued on the 5th July, I might conclude this report by simply stating that it will be thus seen there was no delay in this Department, and the failure to obtain the requisite fuel was

because fuel had been applied for that either could not be cut with due regard to public rights, or could only with propriety be cut after consulting the villagers. But the case is one that so peculiarly illustrates the present bearing of the firewood question, that I beg to add a few remarks that may be given in a few words.

7. Of all the applications specified, the last was the proper one. It was to cut wood in six of our villages near the Gháts where wood is plentiful, and, low down, might be cut to the improvement of the public health. The application was made for so many acres; leave was given; the land was marked out; and no wood was taken. In one of the villages acccording to the system, now ordered, 60 cart loads were granted, and were taken. The value of the wood taken depends on the extent to which those who cut it confined themselves to trunks, leaving the tops and branches on the ground. I can give no opinion on how far that fuel was really paid for; whilst the Tumma trees, for cutting which leave was given on the 21st October after consulting the villagers, were cut most wastefully; and the Tamarind trees, had leave been given, was cutting down to make the bridges on one line the only shelter travellers had on the other. As regards the Tamarind, I successfully prevented their being cut down then, but, enfranchized since by the Inám Commissioner, no delay will in future occur in supplies required for burning bricks for the Dornal road from the Virlagudipad Tope, &c., so long as the supply lasts; and thus, whether as regards Tamarind or Tumma trees, it will be observed, that the delay occurred in consequence of wood being applied for, that either should not have been cut at all, and now can be cut, or, if cut, should be recognized, which it was not; and where there was no delay and wood was cut, it was cut under a system it is not possible to check as regards Conservancy, and not cut where it might have been, and cutting would have improved the health of the neighbourhood.

8. To have gone to the western villages would have been 20 miles carriage and raised rates. It simplified matters to get a tope close by, that, it is true, had been planted for the benefit of travellers, but big trees would burn well; whilst, failing the Tamarind, to cut down with an unsparing hand the Tumma trees and pay by the cart load without reference to what more was left on the ground was the next best thing to be done, was done, and is the system.

1. Ordered that the above letter be submitted for the information of Government, with reference to their Order, No. 2,034, dated 24th July 1863.

2. The delay appears to have been unavoidable, and no blame is attributed by the Collector to the Tahsildar of Otmakuru.

3. Mr. Dykes refers to correspondence with which it is unnecessary to trouble Government, and it will suffice to say that he would insist on reserving as public Topes, Topes planted on favorable terms by private individuals, such Topes having in past times been a convenience to travellers; while the Inám Commissioner, the Board, and finally Government, have expressed their opinion, that the true way to encourage planting, is to leave the planter free to deal with the trees as he likes, under which opinion these Jari Inám Topes have been enfranchized.

(A true Copy and Extract.)

(Signed) W. HUDLESTON, Secretary.

Referred to the Department of Public Works.

(Signed) J. D. SIM,
Secretary to Government.

14th December 1863.

No. 13. ORDER THEREON, 4th January 1864, No. 6.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 14. Read the following Proceedings of the Madras Government in the Revenue Department:—

Approving of the proposal to convert the Barracks at Chicacole, Ganjam District, into a Cutcherry for the Collector's Assistant. } (Here enter 19th December 1863, No. 2,336.)

No. 15. ORDER THEREON, 4th January 1864, No. 7.

Communicated to the Superintending Engineer, 1st Division, for information and guidance.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 16. Read the following Proceedings of the Madras Government in the Revenue Department:—

Stating that avenues are not planted with a view to provide fuel for Public Works. } (Here enter 19th December 1863, No. 2,337.)

No. 17. ORDER THEREON, 4th January 1864, No. 8.

Communicated to the Superintending Engineer, 8th Division.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 18. Read the following Proceedings of the Board of Revenue, dated 9th December 1863, No. 7,751:—

Read the following letter from J. W. B. DYKES, Esq., Collector of Nellore, to W. HUDLESTON, Esq., Secretary to the Board of Revenue, dated 18th November 1863, No. 391.

SIR,

1. I have the honor to report on the progress of Public Works in this District in 1862-63.

2. The total expenditure was a lac and seventy-thousand in round numbers; and, of this sum, half or eighty-five thousand went to Irrigation, half to communication and buildings.

3. Buildings represent some nine-thousand Rupees; of which again half was paid out to the Superintendent of Police for Police huts, and need not further be referred to here; whilst the balance was for a Police Station, a Church Chancel, &c., and buildings for the Salt Department, an item, that, if salt stores are found necessary, will before long assume very different proportions.

4. In communications we have been making progress. As regards Musunuru nothing was done, save passing an Order in the Central Office, that there shall be an iron bridge; and, as regards Manubole, another bad break in the great coast road, matters were similarly I believe at a dead lock. But otherwise the coast road is in good order with very trifling exception from the Mannair to the salt-water creek* at the south-west corner of the Pulicat lake; and the assistance thus given to traffic is invaluable.

* 130 miles.

5. The cause-ways that have been built where bridges were washed away meet fully our requirements, bid fair to last, and I would strongly recommend should be adopted instead of an iron bridge over what will be dry land for the greater part of the year,† and over what much of it might be made dry land‡ were a cause-way skilfully managed.

† Musunuru.
‡ The creek referred to, in the preceding paragraph, and known as the Punugadu back-water.

6. The new works on communications amount altogether to Rupees 35,700, of which Rupees 9,400 were expended on the coast road, Rupees 15,400 on cross cotton roads, and Rupees 10,700 on the Guduru and Dugarazupatnam road.

7. As "cross cotton roads," I refer to, first, the Cumbum, Ongole, and Kottapatnam; secondly, the Dorenal, Nellore, and Krishnapatnam roads.

8. I was up at Ongole last September, and regret I cannot altogether agree in the propriety of the course pursued in respect to the Cumbum, Ongole, and Kottapatnam road.

9. Our great difficulty in respect to the Cumbum, Ongole, and Kottapatnam road is the coast swamp. If Cotton from Cumbum and the westward is not taken to the coast, if it is taken down the coast road, river after river has to be crossed; if it is taken to Kottapatnam, there is the port, there are the agents ready to ship; and the only difficulty in the way is the swamp, which I would therefore have taken in hand first. It has been taken in hand last. Again, as to the way it is being taken in hand, I beg to refer the Board to my report§ on the Local Funds, paragraph 8, and state that not only was the bridge being built of broken bricks, when I was there, but it seems to me even if the bricks were whole, the bridge when built cannot stand for our monsoon. Half a mile of water way cannot be discharged by six arches, thirteen feet space and six feet from the ground to the crown of the arch. If there were a good strong flooring perhaps the bridge might stand a light fall, for there is a cause-way that will come into play when the water rises six feet. But there is not even a flooring provided for in the Estimate, I was informed by the Overseer in charge. The first set of the current on the black cotton soil on which the bridge is built will scoop a channel and wash the whole concern away; and whether as regards postponing the swamp to the last, or the course pursued now it is at last taken in hand, the prospects of the cotton trade, so far as the Kottapatnam swamp is concerned, are not encouraging.

§ Recorded in Board's Proceedings, dated 5th November 1863, No. 7,042.

10. As regards the Dorenal, Nellore, and Krishnapatnam road, it is the same thing. We are landed in the Krishnapatnam swamp when a couple of miles more would put the cotton on boardship, and were the East Coast Canal extended to Krishnapatnam, would reduce the cost of a hundred miles of carriage by the difference between the cost of canal, carriage, and roads.

11. All the bandies break bulk at Nellore, the extension of the East Coast Canal to Krishnapatnam would secure every bale of cotton being sent by water, would save maintenance allowance on the trunk road, and would give the Cuddapah carts carriage to the water edge instead of their going down for Salt to Krishnapatnam empty as at present.

12. On the Dorenal, Nellore, and Krishnapatnam line, progress has been made westward; and in the last few months the line has been traced to the Ghauts along the water shed instead of through the Mahimalur rice lands as originally designed. I hope there is a fair prospect of the progress being continued; and whether as regards continuing to this place the metalled road that now stops on the Cuddapah boundary, or making the road through the swamp to the Krishnapatnam back-water, or joining the Krishnapatnam back-water to Madras by eighteen miles of easy Coast Canal, in no way could the public money be expended with more advantage to the Ryots, the Government, the Cotton trade, and the Salt Department.

13. The effect that would be produced on our Salt sales by return bandies from Krishnapatnam would be equally felt at Kottapatnam, which is within a mile or so of Padarti, our largest Salt Division; and in thus prominently bringing forward the salt interests, I beg to state, it is the interests of the consumers, I advocate. They pay for the carriage, at least those who can afford to buy; and those who can't, who eat earth Salt now, would find their interests had been included when the return carts from the coast, sooner than come back empty, had brought down the price of Salt to what they could probably afford.

14. The Guduru and Dugarazupatnam road has also been making progress. From our Local Fund grant I showed no expenditure to speak of. From the Imperial Funds Rupees 10,700 have been laid out; and this year the line should be opened throughout.

15. Repairs of Communications or Maintenance allowance represent an expenditure of Rupees 39,500, which has been much needed to meet the greatly increased traffic.

16. And before leaving the subject of Communications, on which it has been seen our expenditure has been Rupees 75,200, I beg to state, that, should the Board think fit to recommend the measure, nothing would give me more pleasure than to render on these Imperial lines the assistance the Board considered, I should be able to give on local roads. There has been long talk about extending the Coast Canal to Krishnapatnam. Plans have been made. If the line were marked out, I would undertake to get it dug. It runs through much of the Venkatagiri Zemindar's country; and I could count on his co-operation. For the masonry works in the coast swamp, I would undertake to get the firewood collected. I would gladly do any thing in the way of assistance and lifting the District over the swamp that for sixty years has checked her progress.

17. Irrigation in the year under report has been developed by a liberal expenditure on Anikut Channels, either wholly new or so greatly increased in capacity as to be tantamount to new works. With the exception of some small works on our reservoirs, the whole of the 66,000 Rupees, shown in the annexed Statement under the head of New Works, has been expended on the Anikut channels; and as I went into this question fully in my special report on the Anikut and its subsidiary reservoirs, I will not now refer to it further than to observe that

there is a discrepancy of some 3,000 Rupees between the accounts furnished then and now, which is probably the result of the constant changes made in our accounts by the Accountant Department, and regarding which I am about to apply to the Superintending Engineer for an explanation.

18. In repairs of Irrigation works, the expenditure has been chiefly on our reservoirs. In Atmakuru with an area of 10,000 Acres it rose to Rupees 5,000; in Kandukuru on 7,000 Acres it was Rupees 4,000 in round numbers; but on the whole District it was small. On a revenue of Rupees 5,68,000 our repairs were only 3 per cent; and a heavier expenditure would have been money well laid out.

19. Including new works and repairs, our total expenditure under the head of Irrigation* during the year under report has been 7 per cent; in 1861-62 it was 16 per cent; in 1860-61 it was 33 per cent. and the proportions thus given by the totals, the Board will observe, apply to the details, there has been a general decrease in the out-goings; and, on the other hand, as regards the income from a revenue of five lacs in 1860-61, we have had an increase of half a lac or 10 per cent. in 1861-62, and this increase has been maintained in 1862-63, an admittedly bad season, results which cannot but be considered satisfactory.

* Exclusive of the Anikut Channels, the new Sarvapalli cut and the Krishnapatam.
Vide last year's report recorded in Board's Proceedings, dated 21st October 1862, No. 6,994.

Statement showing Irrigation expenditure, Talukwar and with reference to the area irrigated.

Names of Taluqs.	Area irrigated and the assessment as adjusted for 1862-63.		Expenditure under the Public Works Department during 1862-63 on works of irrigation.		Total expenditure under the Public Works Department, during 1862-63 on works of irrigation	Comparison of expenditure with assessment as shown in column 2.		Remarks.
	Area.	Assessment.	New works.	Repairs.		On repairs.	Total	
Names.	Acres.	RS.	RS.	RS.	RS.	Per cent.	Per cent.	
Guduru	22,928	1,27,116	501	2,158	2,659	2	2	Not struck as the assessment on the rented villages in the Saidupuru Taluk is not included.
Rapuru	1,805	9,519	1,413	7	1,420	...	...	
Nellore	54,959	2,66,970	22,054	1,925	23,979	1	9	
Atmakuru... ...	9,588	52,180	258	5,028	5,286	10	10	
Kavali	10,558	51,313	458	1,484	1,942	3	4	
Udayagiri... ...	943	5,391	...	...	...	...	...	
Kanukuru... ...	6,984	28,689	754	4,104	4,858	11	13	
Ongole	1,783	10,566	...	835	835	8	8	
Kanigiri	896	6,469	186	34	220	1	3	
Total...	1,10,444	5,68,213	25,624	15,575	41,199	3	7	These per centages are incorrect, in so far as the villages referred to above are not included.
Expenditure on the Pennar Anikut distributed over two Taluks	......	......	790	2,621	3,411	...	...	
Ditto ditto Sarvapalli new cut from Jaffar Sahib ...	......	......	13,463	...	13,463	...	...	
Ditto ditto Canal of Irrigation from Nellore to Krishnapatnam ...	......	......	26,156	135	26,291	...	...	
Total...	......	......	40,409	2,756	43,165	...	...	
Grand total...	1,10,444	5,68,213	66,033	18,331	84,364	3	15	

ENCLOSURE No. 1.

ABSTRACT.—Revised Report of progress in the Nellore District during the year 1862-63.

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1. Ordered to be submitted for the information of Government. The progress reported is satisfactory, although much still remains to be done, and the Board would request special attention to the cotton roads to the Coast, to the East Coast Canal extension, and to the repairs of the irrigation works. The development of the Salt sales and of the Land Revenue is greatly dependant on these works.

2. The Board request that the Superintending Engineer of the Division may be authorized to avail himself to the fullest extent of the Collector's proferred assistance in the execution of earth works, &c.

3. Mr. Dykes's remarks on the work at the bridge near Kottapatnam deserve attention.

(A true Copy and Extract.)

(Signed) W. HUDLESTON, *Secretary.*

No. 19. ORDER THEREON, 4th January 1864, No. 9.

1. Communicated to the Superintending Engineer, 2nd Division. The suggestion made in paragraph 5 of the Collector's letter will receive the consideration of that Officer. Colonel Anderson will report specially on the Cumbum, Ongole and Kottapatnam Road, and the alleged irregularities connected therewith, which are noticed in paragraph 9 of Mr. Dykes' report. It is observed that the unsatisfactory condition of this Cotton Road was brought to notice by the Collector in his report on Public Works for 1861-62, and that the Deputy Chief Engineer's attention was drawn to it in Proceedings dated 24th November 1862, No. 2,820. Colonel Anderson's attention is drawn to the remarks in paragraphs 10 to 13 on the subject of the Dorenal and Nellore road which came under the notice of Government in Proceedings dated 17th July 1863, No. 1,927.

2. Paragraph 16 will be communicated to Mr. Kennedy. The assistance which the Collector expresses himself prepared to render should be taken advantage of as far as necessary. Plans and Estimates for the extension of the Coast Canal to Kistnapatam are now under the consideration of Government.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 20. Read the following letter from Lieutenant-Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 22nd December 1863, No. 4,176 :—

SIR,

1 Estimate.

1. I have the honor to submit for the sanction of Government an Estimate, Rupées 167, which has been prepared at the requisition of the Secretary to the Board of Revenue for repairing the road on the west side of the building occupied by them at Chepauk.

2. The want of this road is represented to be a great inconvenience, and I beg to recommend its immediate execution from the savings which I believe will be effected on the sum, Rupees 2,500, allowed by Government for roads in Fort Saint George, in page 62, Appendix of the Budget of the current year.

No. 21. ORDER THEREON, 4th January 1864, No. 10.

The Governor in Council sanctions the Estimate submitted with this letter amounting to Rupees 167, and directs that the cost of the work be met from the source mentioned in paragraph 2.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 22. Read the following letter from Sir MACDONALD STEPHENSON, Chairman, Indian Tramway Company (Limited), to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 22nd December 1863 :—

SIR,

I have the honor to inform you with reference to the lines of light Railway in the Madras Presidency, which in the opinion of the Committee of the Indian Tramway Company are most required, and likely to be earliest remunerative, the Company are prepared if approved by the Government to undertake at once, subject to confirmation by the Board of Directors, the undermentioned lines :—

1.	Arconum to Conjeveram	17 Miles about.
2.	Wallajahnugger (Arcot) to Station	5 ,,
3.	Beypore to Calicut	8 ,,
4.	Tinnevelly by Palamcottah to Tuticorin ...	30 ,,
5.	Madas to Saint Thomas' Mount, Poonamallee and Arvady Station	20 ,,
6.	Cochin line, viz., Shoranoor Station by Trichoor to Keerryaputnam...	42 ,,
		122 ,,

Or including sidings about 135 miles, upon the following conditions :—

(1.) The gauge to be 3' 6," or 5' 6," at the option of the Company.

(2.) Government to provide a suitable and substantial "substratum," (viz., earthworks, culverts, bridges, viaducts and the ballast required for a good metalled road).

(3.) Government to pay for maintenance £25 per mile per annum for a 3' 6," or £50 per mile per annum for a 5' 6" gauge, without restriction of time.

(4.) Colonel Strachey's draft of conditions to be otherwise observed.

(5.) The Indian Tramway Company to be permitted to construct, on the same terms, any extensions, or other selected lines, to the collective extent of 500 miles, of which the Government shall approve and which the Company may then be prepared to proceed with.

From Sir MACDONALD STEPHENSON, Chairman, Indian Tramway Company (Limited), to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 22nd December 1863.

SIR,

1. I have the honor to inform you, with reference to the notice required by Colonel Strachey's conditions relative to light Railways, that the object and nature of the works upon the Arconum and Conjeveram line are :—

"To construct, maintain, and work upon the Government road, a light Railway of "3' 6" gauge, with locomotive engines, for the transport of passengers, and merchandize of "all descriptions."

2. As the rails, machinery, engines, and rolling stock, are already nearly completed, and a portion on the way out, the Government will probably consider it advisable, that the necessary forms should be gone through, with all convenient despatch.

No. 23. ORDER THEREON, 4th January 1864, No. 11.

Ordered that the following letter be despatched :—

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Ordered that the following letter be despatched.

No. 24. From Colonel C. A. ORR, R. E., Secretary to the Government of Fort Saint George, Public Works Department, to Sir MACDONALD STEPHENSON, Chairman, Indian Tramway Company (Limited,) dated 4th January 1864, No. 12.

SIR,

1. In reply to your letter of the 22nd December 1863, I am directed to inform you that the Government accepts the terms on which you propose to construct light lines of Railway from the Arconum station of the Madras and South Western Railway to Conjeveram, a distance of about seventeen miles, and from Arcot station, on the same line of Railway to Wallajanugger, five miles in length ; but, as the terms you demand are in some respects in excess of those which this Government has been empowered by the Government of India to concede, I am

desired to state that this acceptance of them is contingent on the approval of the Governor General in Council, to whom the matter will be referred for favorable consideration, with the strongest support of this Government.

2. In the meantime this Government will not object to your taking possession of half the width of the roads between Arconum and Conjeveram, and Arcot and Wallajanugger, on the understanding that in the event of these concessions being disallowed by the Government of India the roads shall be restored to their present state.

3. As regards the other lines which you intimate that the Company you represent are ready to take up, it appears to this Government, that the two from Beypoor to Calicut, as a continuation of the Madras and South-Western main line, and from Shoranoor station, by Trichoor, to Keerryaputnam, towards Cochin, are the most important and deserving of the first attention, and I am to say that the terms on which you propose to construct them, as well as any others which your Company may be prepared to undertake, will be gladly taken into consideration as soon as Estimates of the probable cost of completing the " suitable and substantive substratum (viz., " earthworks, culverts, bridges, viaducts, and the ballast required for a good metalled road") which you require to be provided by the Government are submitted.

No. 25. Read the following letter from Sir MACDONALD STEPHENSON, to Colonel C. A. ORR, R. E, Secretary to Government, Public Works Department, dated Madras, 1st January 1864:—

SIR,

1. I have the honor to submit for the consideration of His Excellency the Governor in Council, a suggestion with reference to the Madras Pier, which I believe may at moderate cost be made available for landing and embarking passengers and merchandize, in comparatively smooth water, at all seasons, and eventually to dispose with the use of Masoollah boats.

2. I submit my views with great deference to the opinions of the many able Officers who may have considered the subject, but it is one to which my attention was directed upwards of thirty years since, when I was applied to and furnished designs for a breakwater.

3. If the Government consider the end obtained to be of sufficient importance to justify a moderate expenditure to make some experimental trials, I shall readily explain my views to any Officer to whom they may be entrusted, and upon whose opinion of the practicability and probability of success of the proposal the Government can be guided in incurring the expense of the experiments.

No. 26. ORDER THEREON, 4th January 1864, No. 13.

The Governor in Council resolves to nominate Lieutenant-Colonel Boileau, Superintending Engineer, 4th Division, to confer with Sir Macdonald Stephenson on the subject referred to in this letter.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Read the following papers:—

No. 27. From Captain O. W. S. CHAMBERS, R. E., Superintending Engineer, 1st Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Waltair, 28th October 1863, No. 1,511.

SIR,

1. In pursuance with the Order of Government as per margin,* I have the honor of reporting that there are no Powder Magazines in this Division unprovided with Lightning Conductors, with the exception of the small Expense Magazine of the Battery of the Royal Horse Artillery at Waltair, which is a private building, in fact a mere room, and which will be abandoned immediately the new Barracks are constructed.

* No. 3,007 of 17th October 1863.

2. I would observe that in my opinion the existing Lightning Conductors are of more than doubtful utility; perhaps harmful: Estimates have been submitted for refitting them after the approved method.

No. 28. From Lieutenant-Colonel J. C. ANDERSON, R. E., Superintending Engineer, 2nd Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department, Public Works dated Masulipatam, 27th October 1863, No. 965.

SIR,

Referring to G. O. No. 3,007, dated 17th instant, I have the honor to inform you that all the Powder Magazines in the 2nd Division are provided with Lightning Conductors.

Proceedings of the Madras Government, Public Works Department, 5th January 1864.

No. 29. From Lieutenant-Colonel E. HEMERY, R. E., Superintending Engineer, 3rd Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Camp Royachoti, 23rd October 1863, No. 183.

SIR,

With reference to Order of Government No. 3,007, dated 17th instant, I have the honor to report that all the Powder Magazines in this Division are protected by Lightning Conductors with the exception of the Magazine in the Cuddapah Cantonment, but this deficiency has been provided for in the Estimate submitted for sanction on the 1st instant.

No. 30. From Lieutenant-Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 15th December 1863, No. 4,056.

SIR,

1. With reference to the Proceedings of Government No. 3,007, dated 17th October 1863, I have the honor to report that all Powder Magazines at the Presidency are provided with Lightning Conductors; but the one at the grand Magazine is reported not to be in working order, a portion of the Copper rod having apparently been stolen. An Estimate for its repair was prepared last year, but the Deputy Chief Engineer Centre Circle declined to sanction it on the grounds that the Magazine was not then in use for the storage of powder; there is however, now a probability that the Ordnance authorities will soon resume charge of this building, and I have instructed the Range Officer to submit an Estimate for placing the Lightning Conductors in efficient order, and for altering them in accordance with the principles laid down in the War Office Circular on the subject.

Vide Proceedings of Government No. 1,540, dated 15th June 1863.

2. At Saint Thomas' Mount and at Vellore the Powder Magazines in use are provided with Lightning Conductors; at the former place is a Magazine not so provided, but it is so damp that it is never likely to be used for the storage of powder.

3. At Raneepett (Arcot) there is a Powder Magazine without a Conductor, for which the Range Officer has been directed to furnish an Estimate to meet the rules laid down in the Circular above quoted.

No. 31. From Captain E. A. FOORD, R. E. Superintending Engineer 6th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Tanjore, 17th November 1863, No. 1,140.

SIR,

With reference to your Official Memorandum No. 60 of the 13th instant, I have the honor to inform you that Powder Magazines in this Division are provided with Lightning Conductors. In letter No. 841 of the 28th September I reported there are at present no Public Buildings in this Division which require Lightning Conductors.

No. 32. From Lieutenant-Colonel H. W. HITCHINS, R. E., Superintending Engineer, 5th Division, to Colonel C. A. ORR, R. E., Secretary to Government Public Works Department, dated Bangalore, 3rd December 1863, No. 1,483.

SIR,

With reference to the Proceedings of Government dated the 17th October last, No. 3,007, I have the honor to report for their information that all the Powder Magazines in this Division are provided with Lightning Conductors.

Proceedings of the Madras Government, Public Works Department, 5th January 1864.

No. 33. From Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Canote, 24th November 1863, No. 239.

SIR,

1 Indent in duplicate.
1 Inspector General of Ordnance.
Wrapper.

1. I have the honor to report with reference to Government Order, No. 3,007 of 17th October, and Memorandum, No. 60 of 13th November, that I have ascertained from the various Ranges that no Powder Magazines remain unprotected from lightning save those for which Estimates have been prepared in conformity with the revised instructions, and for which the sanction of Government is not yet received.

2. With reference to this subject, I forward a duplicate indent for copper wire required for lightning Conductors in Neilgherry Range, not complied with by the Inspector General of Ordnance on account of the article not being in store, I shall feel obliged by your instructing me how otherwise it may be obtained in Madras.

No. 34. From Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madura, 28th October 1863, No. 1,001:—

SIR,

In reply to your No. 3,007, dated 17th October 1863, I have the honor to report that the Powder Magazine at Palamcotta has a Lightning Conductor; that at Quilon is not provided with one; an Estimate was forwarded on the 18th June 1859 to the Military authorities, but has not yet been sanctioned, amounting to Rupees 200; it will probably require revision.

No. 35. ORDER THEREON, 5th January 1864, No. 14.

1. The Government will await the receipt of the Estimates referred to in paragraphs 1 and 3 of the letter from the Superintending Engineer, 4th Division.

2. The Superintending Engineer, 8th Division, will be requested to submit an Estimate for fitting a Lightning Conductor to the Magazine at Quilon.

3. Ordered that the following letter be sent:—

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Ordered that the following letter be despatched.

No. 36. From Colonel C. A. ORR, R. E., Secretary to the Government of Fort Saint George, Public Works Department, to the Secretary to the Government of India, P. W. D., dated 5th January 1864, No. 15.

SIR,

From Major Chesney, No. 5,099, dated 21st September 1863.

1. With reference to the Circular marginally noted, I am directed by the Honorable the Governor in Council to state that with the exception of those mentioned below, all the Powder Magazines in this Presidency are protected by Lightning Conductors:—

Small Expense Magazine of the Battery of the Royal Horse Artillery at Waltair, Vizagapatam District.
Powder Magazine in the Cantonment of Cuddapah.
Do. at Saint Thomas' Mount, Madras District.
Do. at Raneepett, North Arcot District.
Do. at Quilon, District.

2. The Expense Magazine at Waltair, which is a small private building in fact merely a room, will shortly be abandoned, while that at Saint Thomas' Mount is so damp that it is never likely to be used for the storage of powder. An Estimate for fitting Lightning Conductors to the Magazine in the Cantonment of Cuddapah is now under the consideration of Government, and others for fitting Lightning Conductors to the Magazines at Raneepett and Quilon have been called for.

3. Several Estimates have been received and others are now under preparation for fixing the Lightning Conductors attached to the Public Buildings in this Presidency in the manner laid down in the note on page 10 of the Circular Memorandum from the War Office, received with the Circular from the Government of India No. 7 of 1863.

No. 37. Read the following letter from Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Coonoor, 24th December 1863, No. 271 :—

SIR,

With permission of the Officer commanding his Regiment I have the honor to request that the necessary steps may be taken for placing at my disposal the services of Private J. Murray of H. M.'s 102nd Royal Madras Fusiliers. It is proposed to employ him to superintend the Brick making operations at the new Coimbatore Jail, on a fixed salary of Rupees 40 including his Military pay, should you have no objection to the arrangement.

No. 38. ORDER THEREON, 5th January 1864, No. 16.

Resolved that application be made to His Excellency the Commander-in-Chief, through the Military Department, for the services of Private J. Murray being placed at the disposal of the Superintending Engineer, 7th Division, for employment in the manner proposed in this letter.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 39. Read the following letter from Captain O. W. S. CHAMBERS, R. E., Superintending Engineer, 1st Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Waltair, 8th December 1863, No. 1,873 :—

SIR,

I do myself the honor of forwarding to Government the accompanying Memorandum* from the Comptroller and Auditor, with a view that some notice may be taken of the habitual discourtesy shown by his Office : it is with regret that I trouble Government with such a triviality.

* No. 1,922 of 24th November 1863.

No. 40. ORDER THEREON, 5th January 1864, No. 17.

The Governor in Council is of opinion that nothing in the Memorandum adressed to the Superintending Engineer of the 1st Division by the Controller and Auditor of Public Works Accounts and complained of in the above letter can be considered discourteous, and His Excellency regrets that Lieutenant-Colonel Chambers has thought it necessary to trouble the Government with this reference.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 41. Read the following letter from Captain E. A. FOORD, R. E, Superintending Engineer, 6th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Tanjore, 9th December 1863, No. 1,348:—

SIR,

1. I have the honor to forward for sanction and entry in the one per cent. Income Tax Budget of 1864-65 a revised Estimate amounting to Rupees 43,600 with Plans, for the formation of a road from Trichinopoly through Arealur and Wodiarpolliem to join Trunk Road No. IX, in lieu of the original Estimate of the same amount framed in the year 1854, and sanctioned by Government in their Order No. 1,405 of the 12th August 1856.*

1 Revised Abstract Estimate.
1 Comparative Statement.
1 Specification.
3 Plans.
2 Surveys.

* Item No. 147, Imperial Budget of 1862-63.

Proceedings of the Madras Government, Public Works Department, 5th January 1864.

2. Owing to the distance of time since the original Estimate was framed, several alterations had to be made, and the preparation of fresh Plans and Estimates was necessary.

3. The work has been commenced on the road in accordance with the entries in the Revised Estimate on the sanction of Rupees 10,000 in the current† year's Income Tax Budget, and Rupees 20,700 have been entered for completing the work in the Budget of 1864-65.

† Item No. 22.

No. 42. ORDER THEREON, 5th January 1864, No. 18.

1. The Governor in Council sanctions the revised Estimate submitted with this letter, amounting to Rupees 43,600, for the construction of a road from Trichinopoly through Arealur and Wodiarpolliem to join Trunk Road No. IX.

2. It is observed that the present Estimate corresponds in amount with that sanctioned in G. O. No. 1,405, dated 12th August 1856.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 43. Read the following letter from Captain E. A. FOORD, R. E., Superintending Engineer, 6th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Tanjore, 15th December 1863, No. 1,372 :—

SIR,

1. In accordance with the entry made in the Budget for repairs for 1864-65, I have the honor to forward for sanction an Estimate of Rupees 1,100 for maintenance allowance at the rate of Rupees 100 per mile for the first 11 miles of the road from Trichinopoly viâ Torriore to the Salem boundary.

1 Estimate.

2. The formation of this road is in rapid* progress and will be shortly completed. It is an important line, as it opens up a portion of the District where Cotton is grown, and it will act as a feeder to the Railway.

* Item No 25, Rupees 10,000 one per cent. Income Tax Budget, 1863-64.

3. No traffic return can be prepared as the road at present passes along different village roads, but when it is opened, it is calculated that there will be about 150 bandies a day at first, and that it will eventually increase, and an annual maintenance grant is therefore urgently required.

4. A sum of Rupees 130 has been sanctioned in the Order of Government No. 322 of the 29th February 1856, for the portion of this road between Trichinopoly and Manachenullur, and the amount for which sanction is now requested is Rupees 970.

5. Sanction is also requested for a grant of half the amount, viz., Rupees 485, for the conservancy of the road during the remainder of the current year, and for repairing injury caused by the recent north-east monsoon rain which has been very heavy this season.

No. 44. ORDER THEREON, 5th January 1864, No. 19.

1. The Government sanctions a maintenance allowance of Rupees 1,100 for 11 miles of the road from Trichinopoly to the Salem frontier viâ Torriore, and authorizes the outlay of that sum in the Budget. The sanction granted for an allowance of Rupees 130 for a portion of this road (from Trichinopoly to Manachenullur) will be considered cancelled.

2. The Superintending Engineer will report the manner in which he proposes to provide the funds applied for in paragraph 5.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 45.

Read the following :—

No. 2,109.

List of Bills received from the Superintending Engineer, 4th Division, submitted for the sanction of Government, which exceed their Estimates by more than five per cent.

Audit No.	Date of Bills.	Description of work.	Amount of Estimate.	Amount of Bill.	Excess.	Percentage of excess.	To what year's expenditure appertaining.	Date when received.	Remarks.
			RS. A. P.	RS. A. P.	RS.				
702	1862. February 24th	Constructing the eastern range of buildings to the Artillery Depot at the Mount for the 2nd quarter ending 31st October 1861.	22,200 6,010 28,210 0 0	6,918 2 8	6,879	$24\frac{1}{3}$	1861-62.	Received 11th Oct. 1862. Returned 28th Feb. 1863. Received back 5th Oct. 1863. Returned again 5th Oct. 1863. Received again 14th Dec. 1863.	This work was sanctioned by Government in their Proceedings Nos. 1,850 and 1,970, dated 1st August 1859 and 7th June 1861, and was commenced in May 1860, under the personal supervision of the District Engineer and carried on uninterruptedly, first by Overseer Lee, second by Assistant Overseer Franklin, and lastly by Sub-Overseer Vencatachella Pillai to its completion in March 1862. It will be seen from the Comparative Statement that an excess expenditure of Rupees 6,879 has been incurred over the sanctioned Estimates, the cause of excess is
703	1863. June 8th ...	Do. do. for the 3rd quarter ending 31st January 1862.	Do.	3,069 15 11			Do.		
704	Do. ...	Do. do. for the 4th quarter ending 30th April 1862.	Do.	1,734 3 6			Do.		
		Total requiring sanction...	......	11,722 6 1					
		Total amount of Bills passed by this Office...	......	23,366 7 10					
		Total expenditure...	......	35,088 13 11					

attributed by the Superintending Engineer, 4th Division, to the following grounds :—

1st. To the indiscriminate charge to this work alone of nearly all wood purchased for this and other works by Mr. Assistant Overseer Franklin, instead of crediting this work with the value of timber issued and chargeable to other works.

2nd. Rates far in excess of the estimated rates generally.

3rd. To a great excess in sundry charges. The Superintending Engineer also states that the work was examined by him during its progress when he was Deputy Chief Engineer of the Circle and he saw little to find fault with at the time of his inspection, and by the then District Engineers Captains A. S. Moberly and F. J. Moberly and Major then Lieutenant H. N. D. Prendergast, V. C., frequently during its progress and after its completion.

The explanation about the excess consequent on the overcharge of timber is not, however, clear when the Comparative Statement shows no excess in quantity used; but at this distant period it is considered inexpedient to return the Bills, and they are therefore submitted for the sanction of Government.

Chepauk,
16th December 1863.

(Signed) C. V. WILKIESON, R. E., Lieut.-Colonel,
Controller and Auditor of P. W. Accounts.

Proceedings of the Madras Government, Public Works Department, 5th January 1864.

No. 46. ORDER THEREON, 5th January 1864, No. 20.

1. In Proceedings No. 1,850, dated 1st August 1859, the Government sanctioned an Estimate amounting to Rupees 22,200 for the construction of a new range of buildings in connection with the Artillery Depot at Saint Thomas' Mount.

2. With his letter No. 589, dated 17th May 1861, Colonel Horsley, the late Chief Engineer, submitted a Supplemental Estimate for the work, amounting to Rupees 6,010, and explained that the necessity for the additional grant arose chiefly,

	Rs.
First.—From the omission of the cost of the doors and windows in the original Estimate	2,500
Second.—From the construction of two verandahs, not originally contemplated	680
Third.—From the rise in the price of Teak timber	2,299

* Military Proceedings No. 1,970, dated 7th June 1861.

3. In passing* the Supplemental Estimate, the Government observed that the District Engineer's explanation regarding the omission to provide for the doors and windows in the original Estimate was both unreasonable and unsatisfactory, and that no authority had been granted for the construction of the two verandahs; and, while it admitted that the excess due to the rise in the price of Teak timber was excusable, it remarked that the other charges were solely attributable to want of proper attention on the part of the Executive Engineer in the first instance.

4. Notwithstanding the large supplementary sanction of Rupees 6,010, the Government is surprised to observe from the Bill now submitted, that there has been a further excess of Rupees 6,879, attributed to the following causes:—

First.—The indiscriminate charge to this work alone of nearly all wood purchased for it and other buildings by Mr. Assistant Overseer Franklin.

Second.—The rise in the rates of labor and materials.

Third.—The great excess in sundry charges.

5. The Controller states that the explanation relative to the excess consequent on the overcharge of timber is not clear, as the Comparative Statement submitted with the Bill shows no excess in the quantity used on the work. During its progress, the work is reported to have been inspected by Lieutenant-Colonel Boileau, late Deputy Chief Engineer, Central Circle, and by Captain A. S. Moberly, Captain F. J. Moberly, and Major H. N. D. Prendergast. Lieutenant-Colonel Boileau states that, with the exception of the doors, which might have been better made, the work has been executed in a substantial manner and of such materials and workmanship as were at the time procurable in the market.

6. On more than one occasion it has been pointed out to the Officers of the Public Works Department that when a sanctioned Estimate is expected to be exceeded, application should be made to Government for a further grant accompanied with full explanation of the causes which are likely to produce the anticipated excess. Totally ignoring these orders, the late Deputy Chief Engineer, Central Circle, neglected to notice the probability of a further excess occurring, or if he did notice it, omitted to report it to Government and to solicit sanction for the prospective additional expenditure. The work appears to have been completed on March 1862, and the Bill is submitted for the orders of Government after the lapse of 21 months.

7. As the late District Engineers of Madras have been transferred to other charges, and Assistant Overseer Franklin has been removed to the Nellore District, the Government is unable to fix upon any one the responsibility in connection with the present excess of Rupees 6,879, and as it appears from the Controller's remarks that at this distant period additional information is not likely to be obtained by further references on the subject, the Government have no alternative but to sanction the Bills submitted by that Officer. In doing so, however, the Superintending Engineers will be again informed that under no circumstances are Estimates to be

exceeded without *special previous sanction*, and that Bills, in adjustment of expenditure, should be submitted immediately after the completion of the works, or the close of the period to which they refer.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 47. Read the following Proceedings of the Madras Government in the Public Department :—

Sanctioning an Estimate of Rupees 3,240 for the construction of a Post Office at Cuddapah, for entry in the Budget of Public Works for 1864-65. } (Here enter 24th December 1863, No. 1,446.)

No. 48. ORDER THEREON, 5th January 1864, No. 21.

Communicated to the Superintending Engineer, 3rd Division, for information and guidance.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 49. Read the following Proceedings of the Madras Government in the Judicial Department :—

Sanctioning certain alterations to the rooms occupied by the Court of Small Causes at Madras at an estimated cost of Rupees 3,600. } (Here enter 24th December 1863, No. 2,022.)

No. 50. ORDER THEREON, 5th January 1864, No. 22.

1. Communicated to the Superintending Engineer, 4th Division.

2. The Estimate will be entered in the Budget for 1864-65, agreeably to Lieutenant-Colonel Boileau's recommendation.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 51. Read the following letter from Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Meyloor, 18th December 1863, No. 1,539 :—

SIR,

1. In my No. 566 of 9th September 1863, I forwarded an Estimate for Rupees 9,500 for restoring the Trunk Road between Madura and Palamcotta in the Madura District, for which I begged special sanction in addition to my maintenance allowance, meanwhile carrying on the work from this fund.

2. Owing to the exceptional amount of rain that we have had during the current year the irrigation repairs of this District are very much behind hand, and I have serious doubts as to my being able to expend the allotment for want of earth.

3. Under these circumstances I beg that I may be permitted to transfer to the road under the abovementioned Estimate the whole amount of Rupees 9,500 from the irrigation repair fund, or so much as from further experience during the next four months I find I can spare.

No. 52. ORDER THEREON, 5th January 1864, No. 23.

The Government declines to accede to the recommendation contained in this letter until furnished with the opinion of the Collector upon the proposed diversion of so large a sum as Rupees 9,500 from the current year's allotment* for irrigation repairs in the Madura District.

* Rupees 36,030.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 53. Read the following Endorsement of the Superintending Engineer, 3rd Division, dated 26th December 1863 :—

Read the following letter from Mr. J. CAIRNS, Supervisor Department Public Works, to Colonel E. HEMERY, R. E., Superintending Engineer, 3rd Division, dated Camp Raidrug, 21st December 1863, No. 54.

SIR,

1. as there is no place in this range where the records could be kept, I beg to inform you that I have been forced to leave them in Bellary, in a house that I have rented for that purpose for Rupees 8 per month. There are two old Travellers' Bungalows in the range where they could be kept on obtaining the Collector's permission, but even then I would have to keep two people on Rupees 4 each per month to look after them which would amount to what I pay for the house in Bellary; in addition to which the Travellers' Bungalows being in such out-of-the-way places, I consider the records would not be safe if kept in them, even with the aid of two people watching them.

2. I beg to take this opportunity of respectfully suggesting that the Estimate submitted by Mr. Wilson, for a temporary Office at Raidrug, may receive early sanction, and until such time as the temporary Office is built, I beg that you will be so good as to allow me to charge the house rent, viz., Rupees 8, in my monthly contingent bill.

Forwarded to the Secretary to Government Public Works Department in continuation of letters Nos. 237 and 245, dated 14th and 22nd December 1863.

(Signed) E. HEMERY, Lieut.-Colonel, R. E.,
Superintending Engineer, 3rd Division.

No. 54. ORDER THEREON, 5th January 1864, No. 24.

The Superintending Engineer, 3rd Division, will be requested to submit without delay a Plan and Estimate for an Office for Mr. Supervisor Cairns with reference to the Orders marginally noted.

No. 3,826, dated 24th December 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Governmnt.

No. 55. Read the following letter from Lieutenant-Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 14th December 1863, No. 4,024 :—

SIR,

1. With reference to the Proceedings of Government No. 2,563, dated 15th September 1863, I have the honor to forward an Estimate Rupees 930 for altering the Public Privy in the North-east Blind of the Fort so as to adapt it to the dry conservancy system.

1 Tracing.
1 Abstract Estimate.
1 Specification.

2. The privies as they now stand are *dos-à-dos*, but without any passage between them. One set will be thrown forward to establish a free communication along the rear of each set for the action of the sweeper, and what was originally built for a reservoir of water is now to be roofed in and converted into a room for the iron air-tight light receptacles, and for the cleansing processes to be performed by the same functionary.

3. No cart has been provided, nor passage across the ditch, as it is understood that the night-man's duties are carried out under a contractor, who makes his own arrangements for the removal of the soil.

4. Sanction is requested to the Estimate Rupees 930, and for the disbursement of the amount from the sum of Rupees 3,000 allotted for it in the Proceedings of Government No. 2,200, dated 5th August 1863.

No. 56. ORDER THEREON, 6th January 1864, No. 25.

1. The Governor in Council sanctions the Estimate submitted with this letter for altering the Public Privy in the North-east Blind of Fort Saint George.

2. The cost* of the work will be met from the source pointed out in paragraph 4.

* Rupees 930.

3. The sanction now accorded cancels that in Proceedings No. 2,152, dated 31st July 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 57. Read the following letter from Captain E. A. FOORD, R. E., Superintending Engineer, 6th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Tanjore, 11th December 1863, No. 1,361:—

SIR,

1 Abstract Estimate.
1 Map.

1. I have the honor to forward for sanction and entry in the Budget of 1864-65 an Estimate for increasing the maintenance allowance of the 26 miles of road from the Aryar River at Trichinopoly to the boundary of the Madura District by Rupees 1,300, or from the amount of Rupees 1,300 at the rate of Rupees 50 per mile sanctioned in the Order of Government No. 1,036, of the 4th June 1861, to Rupees 2,600, or at the rate of Rupees 100 per mile.

2. When the maintenance sanctioned in the above Government Order was applied for it was calculated for merely repairing the worst parts of the road, but since then the road has been greatly improved and a portion metalled on the Estimate of Rupees 13,800, sanctioned in Government Order No. 1,935 of the 14th August 1862, and the allowance is quite inadequate to keep it in good order.

3. Traffic returns have not been taken lately on the road, but the number of bandies is greater than in 1861, when the return showed a daily average of 226 bandies, and the construction and extension of the Railway will considerably increase the traffic on this line of road.

No. 58. ORDER THEREON, 6th January 1864, No. 26.

1. On the recommendation of the Superintending Engineer, 6th Division the Governor in Council sanctions an allowance of Rupees 2,600 for the maintenance of the road from the Aryar River at Trichinopoly to the boundary of the Madura District in supersession of the existing grant of Rupees 1,300. Provision for the increased grant will be made in the Budget for 1864-65.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Proceedings of the Madras Government, Public Works Department, 6th January 1864.

No. 59. Read the following letter from Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Madura, 1st December 1863, No. 1,373 :—

SIR,

1. Referring to G. O. No. 3,441 of the 24th instant, I have the honor to observe that in my letter* to the Collector I reported that none of these 31½ miles of road were made. I am at a loss to know why Captain Payne applied for, and Colonel Horsley supported, the grant of maintenance allowance for them, while they omitted others which are really made, and entered 19 miles of one which is really 43 miles long.

* No. 513, dated 4th September 1863.

2. In the communication which I made to the Collector, I was only desirous to turn to the best account the funds already granted, as it seemed to me waste of money to lay it out on the unmade tracks.

3. The subject of abandoning or altering any of the lines of road, I believed, would more properly come before Government with my No. 669 of 17th September 1863, submitting Statements of roads which it was proposed to make and maintain from Imperial and Local Funds.

4. Under the latter, the local Officers have entered the road from Coilpatty to Sevalputty continued westward to Kadayanellur, its value as a branch Cotton road is fully recognized. If there be any prospect of funds and the Government consider it proper to transfer it to the Imperial class, I will prepare an Estimate immediately for it.

5. The portion between Ettiapooram and Coilpatty is made and in good order, from Coilpatty the Trunk Road runs to Satoor where the Cotton road again turns to Streevellipootoor; it is because these roads are already made and used that I believe the direct line from Satoor to Ettiapooram is unnecessary, by the former the distance is 22 miles, by the latter 17½.

6. The direct line would run across irrigated and black Cotton soil, parallel in great measure to the Satoor river and at a lower level than the Trunk Road, it would cost probably Rupees 50,000; moreover Ettiapooram is already connected with Madura by a line passing through Vaimbur, which is now here more than 12 miles from the Trunk Road.

7. For these reasons I think that it will be well to re-consider Colonel Horsley's list, I would suggest that this should be read with my No. 669 and the Plan which accompanied it.

8. Meanwhile, I trust that the Government will allow the altered Budget to stand for next year.

No. 60. ORDER THEREON, 6th January 1864, No. 27.

1. The Governor in Council having carefully considered the explanation submitted in this letter, must decline to entertain the Superintending Engineer's proposal for the abandonment of the 17 miles of road between Satoor and Ettiapooram, and of the 14½ miles from Sevalputty to Coilpatty. The former is on the direct line between Streevellipootoor and Tuticorin, and when made will obviate the necessity of the traffic going by the circuitous route viâ Coilpatty. As pointed out in a previous Order the existing distribution of the maintenance allowances was settled after careful revision by the District Engineer, Captain Payne, in communication with the Collector, and it met with the unqualified approval of Colonel Horsley whose opinion is of much value, based as it is on an intimate knowledge of the District during an administration of nearly 15 years.

2. The Government will be prepared to consider such proposals as the Superintending Engineer may deem it proper to make for the improvement of the lines referred to, either by an increase of the maintenance allowance, or by a special grant, carefully prepared Estimates being made and submitted.

3. Provision will be made in the Budget for 1864-65, for maintenance allowances for the following roads:—

	RS.
From Madura viâ Teroomungalum and Streevellipootoor to Tenkasy, for 14 miles, at 150 Rupees.	2,100
From Tenkasy viâ Calludacoorchy to junction with Road No. 4 at Panagoody, for 23 miles, at 100 Rupees	2,300

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 61. Read the following letter from Lieutenant-Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 17th December 1863, No. 4,098 :—

SIR,

Extract Minutes of Consultation No. 577, dated 24th September 1855.
ENCLOSURES.
1 Abstract Estimate.
1 Rough Sketch.

1. In September 1855 an Estimate amounting to Rupees 3,350 was sanctioned by Government for the restoration of the Malapedu Tank in the Madras District, and Rupees 2,884 had been expended thereon, when the general stoppage of Public Works took place. It is now proposed to complete the work, but as the balance Rupees 466 of the original Estimate is not sufficient for the purpose, the accompanying Estimate Rupees 1,820 has been prepared by the Range Officer.

2. The work has been approved of by the present Acting Collector, and I have the honor to request that it may be sanctioned for entry in the Budget for 1864-65, provision for the same having been made in the lists forwarded from this Office on the 31st October 1863.

No. 62. ORDER THEREON, 6th January 1864, No. 28.

* Rupees 1,354.
† Rupees 466.
‡ Rupees 1,820.

The Superintending Engineer, 4th Division, should have explained fully the causes of the great difference* between the unexpended balance† of the Estimate sanctioned in Extract Minutes of Consultation No. 577, dated 24th September 1855, for the restoration of the Malapedu Tank and the amount‡ of that now submitted; but as the Government is aware of the considerable increase of rates that has taken place during the past few years, and allows for the deterioration to which an unfinished work is liable, authority is granted for the entry in the Budget of 1864-65 of the estimated cost (Rupees 1,820) for completing the Tank.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 63. Read the following letter from Lieutenant-Colonel C. V. WILKIESON, R. E., Controller and Auditor of Public Works Accounts, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 17th December 1863, No. 2,122:—

SIR,

Repairing Kuttapatti Tank, Rupees	83	15	9
Do. Ortanapatti „ „	71	0	0
	154	15	9

1. I have the honor to forward two bills as per margin, for expenditure incurred in 1862-63 in the Salem District, and as they are not accompanied with the usual Certificate, I have to request the sanction of Government to my passing them.

2. The following is the explanation afforded by the Superintending Engineer for the absence of the Certificate :—

"These two works were executed during the time the late Executive Officer, Captain "Clay, was in charge of the Oossoor Range, who ought to have inspected them and signed their "completion Certificate, but as it will be difficult to identify the work now, in consequence of "the length of time that has intervened between the date of its execution and the present date, "it is requested that the bills may be passed."

No. 64. ORDER THEREON, 6th January 1864, No. 29.

1. The Controller is authorized to pass the bills referred to in this letter.

2. The Superintending Engineers will be requested to inform all Range Officers that to enable them to furnish the Certificate referred to in paragraph 1, the Governor in Council expects that they will inspect all works within their charges as soon as possible after completion.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 65. Read the following letter from Colonel S. O. E. LUDLOW, Consulting Engineer Irrigation and Canal Company, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Saint Thomé, 19th December 1863, No. 125 :—

SIR,

1. I have the honor to forward the accompanying letter* from the Acting Agent, requesting the sanction of Government to the rent of the Pennar Division Office being increased from Rupees 16 to 24 per mensem from the 1st July 1863.

* No. 1,719 of 12th December 1863.

2. The Office rent of Rupees 16 was sanctioned by Government in their Proceedings No. 1,135 of the 23rd May 1862, but the Chief Engineer states that the rent of the house occupied by the Executive Engineer of which a part is used as his Office was increased from Rupees 50 to 70 from the 1st July 1863, hence the increase of the Office rent for which sanction is now solicited.

3. Under these circumstances, I beg to recommend that the request of the Acting Agent may be complied with.

No. 66. ORDER THEREON, 6th January 1864, No. 30.

Under the explanation afforded, the Governor in Council sanctions the increased rate of Office rent, viz., Rupees 24 per mensem, recommended by the Consulting Engineer for the Pennar Division from the 1st July last.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 67. Read the following Memorandum from the Superintending Engineer, 1st Division, dated Waltair, 12th December 1863, No. 1,919 :—

From Lieutenant H. SMALLEY, R. E., Assistant Engineer Godavery, to Captain O. W. S. CHAMBERS, R. E., Superintending Engineer, 1st Division, dated Ellore, 8th December 1863, No. 172.

SIR,

1. I have the honor to report that the Ellore High Level Canal has been completed this day, and will be opened for navigation throughout to-morrow. I have sent notices to the District Gazettes of the Godavery and Kistna; if you think necessary, I beg you will send notice to the Fort Saint George Gazette. I have appointed a Superintendent and six Lascars at Ellore Lock, and two Lascars at Ellore aqueduct agreeably to the sanctioned Estimate.

2. The Ellore bridge is not quite completed but open for foot traffic only this day.

3. At one part on the Canal for seventy yards close to the Tummelair heavily laden Dhonies must ease their cargo owing to the silt brought in by the Tummelair freshes and the Kistna water being very low at present.

With reference to paragraph 40 of his report on the Ellore High Level Canal, *vide* G. O. of 18th November 1863, No. 3,366, the undersigned does himself the honor of submitting to Government for information an original letter* from the Assistant Engineer Godavery in charge of the Ellore, or 4th Range.

* No. 172 of 8th December 1863.

(Signed) O. W. S. CHAMBERS, Captain, R. E.,
Superintending Engineer, 1st Division.

No. 68. ORDER THEREON, 6th January 1864, No. 31.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 69. Read the following letter from Lieutenant-Colonel C. V. WILKIESON, R. E., Controller and Auditor of Public Works Accounts, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 17th December 1863, No. 2,127 :—

SIR,

1 Bill.
1 Letter.

1. In submitting for the consideration and orders of Government the enclosed bill amounting to Rupees 43-0-2 for the construction of a revetment in Pereacolum tank in the Madura District, I have the honor to state that on the receipt of the bill in question and finding the work represented to be incomplete, I called upon the Superintending Engineer, 8th Division, to send in a final bill for the same with clear explanation as to the reason why it was executed on emergency, but Captain Moberly in reply thereto explains in his letter dated 30th November 1863, No. 1,355, herewith forwarded, that there is no work in progress under the Estimate of Rupees 112, that Assistant Supervisor Venkataramiah is responsible for the execution of the work without Estimate, and that Lieutenant Coningham (the Range Officer) found the bill as accounting for a portion of his outstanding advances and forwarded it on.

2. Assistant Supervisor Venkataramiah has since been pensioned.

No. 70. ORDER THEREON, 6th January 1864, No. 32.

1 The Controller and Auditor of Public Works Accounts is authorized to pass the bill amounting to Rupees 43-0-2.

2. The explanation furnished in regard to the delay in the submission of the bill, which it is observed accounts for expenditure incurred in 1860-61, is very unsatisfactory, and the irregularity in connection with the outlay is by no means creditable to the District Engineer or to the Officer in charge of the range in which the work is situated.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 71. Read the following letter from Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Madura, 13th November 1863, No. 1,154 :—

SIR,

2 Estimates.
2 Memoranda.

1. I have the honor to enclose the Estimates called for in G. O. No. 3,194 of 3rd instant, since they were drawn up a very heavy and unexpected charge has been added to the Estimate in the Military and Civil salaries of both the late Superintendent and of Lieutenant Filgate.

2. As I know not how long this payment will continue I am not able to estimate the amount ; up to this time it has come to Rupees 1,425-8-0.

3. As regards the works at Paumben, I have farther to request the early consideration of Government to the subject of the dredge. Major Syme reports that the steam dredge is in very bad order, her hull requires thorough repair, and her boiler is useless, meanwhile Mr. Wait and the crew are drawing high salaries.

4. The work at Paumben is not progressing satisfactorily, because the spoil boats cannot carry their loads far enough to sea, and the silt appears to be brought back ; the steam tug is badly wanted, but I suppose that till the alterations proposed in G. O. No. No. 2,781 are carried out I cannot expect to have one.

No. 72. ORDER THEREON, 6th January 1864, No. 33.

1. The Superintending Engineer, 8th Division, requests instructions as to the disposal of the steam dredge, which was much injured by an accident in February last. The Government request that Mr. Wait may be directed to make a thorough examination of the whole machinery, and to report, without delay, on the extent to which the damage can be repaired in Madras. Accurate drawings must be submitted of those portions of the machinery which require renewal, and which must be procured from England ; and the Superintending Engineer is requested to forward to Madras, by the earliest opportunity, all the damaged portions which are considered capable of repair in India.

2. The crew of the dredge will of course be dismissed ; and Mr. Wait can be employed on the hand dredge, or otherwise, at Captain Moberly's discretion.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 73. Read the following Proceedings of the Board of Revenue, dated 18th December 1863, No. 7,997 :—

Read Proceedings of the Madras Government, dated 9th December 1863, No. 3,636, Public Works Department, requesting the Board to expedite the submission of the Statement called for in Government Order, 3rd February 1863, on the subject of levying Cart Tax.

(In Cons. 10th December 1863, No. 7,997.)

The Board propose to dispose at one time of the references on the subject of the District Road Cess, the customary village labor, and the improvement of the Local Fund, and they trust to submit their views to Government at an early date.

(A true Extract.)

(Signed) W. HUDLESTON, *Secretary.*

No. 74. ORDER THEREON, 6th January 1864, No. 34.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 75. Read the following letter from Captain E. A. FOORD, R. E., Superintending Engineer, 6th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Tanjore, 15th December 1863, No. 1,373 :—

SIR,

1. In accordance with the entry made in the Budget for repairs for the next year, I have the honor to submit for sanction an Estimate for an increased annual maintenance grant of Rupees 1,415 for the first 18 miles of the road from Trichinopoly to Woodiarpolliem.

1 Abstract Estimate.

2. The undermentioned sums have been sanctioned in the Order of Government No. 322 of the 29th February 1856, and entered in the Budget as the maintenance allowance for this portion of the road, viz. :—

	RS.
From Trichinopoly to Sirdar $7\frac{1}{4}$ miles at Rupees 60 per mile	420
From Sirdar to Kullagoody $10\frac{3}{4}$ miles at Rupees 30 per mile	325
	745
Ap it is now proposed to increase the rate to Rupees 120 per mile, which for 18 miles amounts to	2,160
And the difference for which sanction is requested is ...	1,415

3. The line is increasing in importance every year, both as a Railway feeder and as the road by which the large quantity of Cotton grown in the country around Arealoor is carted to Trichinopoly and elsewhere; and the traffic return taken at two places on the line shows an average of 267 bandies daily, and in the dry months the traffic is said to be much heavier.

4. A great part of the road passes over black Cotton soil, and its conservancy is expensive owing to the distance from which material has to be carted, and I therefore recommend that the increased grant be sanctioned, otherwise it will not be possible to keep the road in good order.

No. 76. ORDER THEREON, 6th January 1864, No. 35.

The Government sanctions a maintenance allowance of Rupees 2,160 for 18 miles of the road between Trichinopoly and Kullagoody. The sanction granted in Orders of 29th February 1856, No. 322, for an allowance of Rupees 745 for this road will be considered cancelled. Provision will be made in the Budget of 1864-65 for the increased grant.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 77. Read the following letter from the Municipal Commissioners for the Town of Madras, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 15th December 1863 :—

SIR,

1. In compliance with the request made at paragraph 2 of the Order of Government, dated 6th ultimo, No. 3,233, we directed our Civil Engineer to close the mouth of the Cooum at once, but owing to the velocity of the stream the work was not accomplished until the 19th idem.

2. We enclose copy of a Memorandum by our Civil Engineer detailing the progress and completion of the work, accompanied by a statement of its cost amounting to Rupees 1,458-6-6, which we request may be passed for payment.

3. As the Superintending Engineer of the Division has doubtless reported the circumstances under which he was compelled to re-open the mouth of the river on the morning of the 30th ultimo, we need only say that it still continues open and that we await the further orders of Government before we take any fresh steps to reclose it.

No. 78. ORDER THEREON, 6th January 1864, No. 36.

1. The Governor in Council sanctions the disbursement to the Municipal Commissioners of the sum of Rupees 1,458-6-6, being the expense incurred in closing the mouth of the Cooum river agreeably to the orders marginally noted. The charge will be met from the sum of Rupees 25,000 which the Government of India have authorized to be transferred from the head of "Reserve" to that of "Repairs."

No. 3,233, dated 6th November 1863.

2. The Superintending Engineer, 4th Division, will arrange for the amount being drawn and made over to the Municipal Commissioners as early as practicable.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 79. Read the following letter from Captain O. W. S. CHAMBERS, R. E., Superintending Engineer, 1st Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Waltair, 15th December 1863, No. 1,947 :—

SIR,

1. Enclosed is submitted for the orders of Government an original letter* from Major Stoddard, late District Engineer Godavery, and a bill for the repairs of a paddle-boat amounting to Rupees 258 12-10.

* No. 243 of 7th December 1863.

2. This boat, one of two, was repaired for the Police of the Rajahmundry Collectorate, but rejected by them as unserviceable.

3. Major Stoddard in his letter† to the late Deputy Chief Engineer, Northern Circle, copy of which is attached, showed that the Police were probably mistaken in their opinion of her.

† No. 1,165 of 27th January 1863.

4. I now do myself the honor of requesting permission to pay for the repairs from the ordinary repair funds of the District, sub-head Irrigation Canals, as the boat in question can be made use of by a Navigation Superintendent, and to enter her value in the returns of the Godavery plant as 458-12-10, instead of 200 Rupees.

5. I have ordered the boat kept by the Police to be struck off our returns.

No. 80. ORDER THEREON, 6th January 1864, No. 37.

Under the circumstances represented, the Governor in Council grants authority for the payment of the sum of Rupees 258-12-10 from the source mentioned in paragraph 4 of this letter, and for the value of the paddle-boat being entered in the Superintending Engineer's returns at Rupees 458-12-10 instead of at Rupees 200 as at present.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 81. Read the following letter from Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Cottamputty, 12th December 1863, No. 1,491 :—

SIR,

1. Referring to Government Order No. 3,570, 4th instant, I have the honor to observe that I believe my letter No. 84 of the 6th July did answer Government Order No. 1,395, 1st June.

2. The only channels in this Division are so small, and the rivers are so broad and shallow, with so great a fall, that if the canals were all closed (which I have no means of doing) the water would be lost in the expanse of sand, and could not possibly alter the depth materially ; the only test would be to keep careful registers of every stream in the main bed with cross levels, &c., which I believe the Government of India do not intend as to try when the prospect of a satisfactory issue is so exceedingly small.

No. 82. ORDER THEREON, 6th January 1864, No. 38.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 83. Read the following Telegram from Colonel BEADLE, Calcutta, to Secretary to Government, Madras, Public Works Department, dated 30th December 1863, No. 229 :—

Duplicate. After full consideration of the Minutes which accompanied Madras Public Works letter number sixty-nine to Secretary of State, the Government of India authorizes as a temporary measure and until the instructions of the Secretary of State are received the payment of the full salaries of all the appointments made by the Government of Madras from the dates of the same, with the single exception of that of the Under Secretary, which is to be Rupees six hundred, the salary of the Bombay appointment.

No. 84. ORDER THEREON, 6th January 1864, No. 39.

Communicated to the Superintending Engineers and to the Controller and Auditor of Public Works Accounts, with reference to G. O. No. 3,112 dated 26th October 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 85. Read the following letter from Colonel S. O. E. LUDLOW, Consulting Engineer for Irrigation and Canal Company, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Saint Thomé, 18th December 1863, No. 123 :—

SIR,

1. I have the honor to forward a Supplemental Estimate* received from the Chief Engineer through the Agent†, amounting after correction to Rupees 16,472 for the Somaisweram Anicut.

* A.
† Letter No. 1,552 of 21st November 1863.

2. This additional Estimate is rendered necessary in consequence of the bed of the river being now found deeper by two feet than it was when the work was originally planned two years ago, a change which necessitates a corresponding addition to the height of the work and alteration in the section.

3. The original and revised sections are herewith forwarded, and considering the greatly increased width of the latter, it appears to me that it would be advisable to strengthen the work by an additional row of wells. The cost of this would be Rupees 12,998‡ making with the Chief Engineer's Supplemental Estimate a total increase of Rupees 29,470 above, the amount of Rupees 1,33,000, originally sanctioned§ for the work.

‡ Estimate B.
§ Government Proceedings No. 78 of 13th January 1863.

4. I beg therefore to solicit the sanction of Government to an additional sum of Rupees 29,470 for this work. If the Chief Engineer should be of opinion that the additional row of wells is unnecessary, he should have the option of omitting them.

No. 86. ORDER THEREON, 6th January 1864, No. 40.

1. Under the explanation afforded, and on the recommendation of the Consulting Engineer, the Governor in Council sanctions the Supplemental Estimate submitted with this letter, amounting in the aggregate to Rupees 29,470, for the Anicut across the Pennair at Somaisweram.

2. The Chief Engineer's opinion, if adverse to the proposal to strengthen the Anicut by an additional row of wells, should be submitted to Government in due course.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 87. Read the following letter from Lieutenant-Colonel J. P. BEADLE, R. E., Officiating Secretary to the Government of India, Public Works Department, to the Secretary to the Government of Fort Saint George, in the Public Works Department, dated Fort William, 21st December 1863, No. 5,314 :—

SIR,

1. With reference to your letter No. 1,035, dated the 27th April 1863, to the address of the Secretary in this Department with the late Governor General, forwarding a statement of the sums chargeable to Public Works in the General Budget, in addition to the amount entered in the regular Departmental Budget, I am directed by the Governor General in Council to state that the Financial Department will be addressed in regard to the grant of an extra allotment of Rupees 40,679 for charges on account of Travellers' Bungalows in the Madras Presidency during 1863-64. For the future, however, this charge will be provided for from Local Funds; *vide* Public Works Department Circulars Nos. 59 and 66, dated respectively the 26th November, and 14th December 1863.

2. In regard to the charges on account of Establishment for Cochrane's Canal, I am to state that the amount required for the purpose, may be met by a transfer from the Reserve at the disposal of the Madras Government. Proper provision should be made for this charge in the Budget Estimate for 1864-65.

3. Instructions will hereafter be given on the subject of advances for working expenses of the Dowlaishweram Workshops. The other items entered in your letter do not call for remark.

No. 88. ORDER THEREON, 6th January 1864, No. 41.

1. Orders will be passed on paragraph 1 of the foregoing letter on the receipt of a reply to the reference made to the Revenue Department in G. O. No. 3,664, dated 11th December 1863.

2. In regard to paragraph 2 it will be ascertained from the Revenue Department whether the Establishment for Cochrane's Canal is properly chargeable to the Public Works Department.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 89. Read the following letter from Lieutenant-Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 18th December 1863, No. 4,110 :—

SIR,

1. With reference to the Proceedings of Government noted in the margin,* I have the honor to submit for sanction an Estimate amounting to Rupees 8,800, for the construction of a road from Cheyoor to Chotapaukam in the Madras District.

1 Survey.
1 Abstract Estimate, Rupees 8,800.
* No. 2,382, dated 4th October 1862.
No. 2,825, „ 29th September 1863.

2. On the 25th ultimo I forwarded to the Board of Revenue an Estimate of Rupees 22,000 for the formation of a metalled road between these two stations; but as both the Board and the Collector consider that the metalling need not for the present be carried out, I struck out the item entered there in on that account, and the result is the Estimate now forwarded.

3. Provision is made for the clearing of jungle, earthwork, turfing, removing rocks, constructing road dams and tunnels, and for the payment of compensation for lands to be taken up.

4. The road being a Salt line, the Revenue authorities are very desirous that it should be carried out as soon as possible, and if Government can grant a special allotment at once for its execution this year out of the Reserve Fund, or out of savings of other Districts, I shall be glad; failing this it is requested that the Estimate, Rupees 8,800, may find a place in the Budget for 1864-65 in lieu of Rupees 20,000, provisionally entered for the purpose in my lists submitted on the 31st October 1863.

Proceedings of the Madras Government, Public Works Department, 7th January 1864.

No. 90. ORDER THEREON, 7th January 1864, No. 42.

The importance of connecting the Salt Kotars at Cheyoor with the Southern Trunk Road having already been recognized, the Government sanctions the Estimate of Rupees 8,800, now submitted, and authorize its entry in the Budget of 1864-65.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 91. Read the following letter from Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Colonel C. A. ORR, E. E., Secretary to Government, Department Public Works, dated Madura, 7th December 1863, No. 1,430 :—

SIR,

1. I have the honor to request instructions as to the execution of Local Funds and the submission of accounts; as the practice in this Division differs from what I have seen elsewhere, and there are no distinct orders on the subject.

2. In Madura I cannot procure any full return of the Local Fund receipts, *e. g.*, after forwarding what I believed to be a complete statement on the 3rd July 1863, I found that the Revenue Officers were expending on the Andiputty Pass the proceeds of the toll levied on that road.

Vide G. O. No. 2,030, dated 24th July 1863.

3. The work was being carried on in a most unsatisfactory manner, but I am not aware that I have any authority to interfere; there was no efficient Maistry on the road, the Sub-Magistrate at Ooslemputty being supposed to superintend the work, the tank diggers (who were employed in making the road in different places over 15 miles, instead of working steadily at one point) complained that they had not had any settlement of their accounts for eight months; the Sub-Magistrate did not deny it, but said he had made advances, which elsewhere in the District we have ceased to do.

4. In Tinnevelly I have after considerable difficulty procured a statement of the collections; but I found that the Collector had taken up the execution of seven works, the Estimates of which he had sent in July to Captain Paxton, then Acting District Engineer, who did not forward them to me.

5. For these works no money has been issued by the Departmental Officers; the Collector has sanctioned the disbursements and declines to furnish me with any accounts. Those submitted to the Department Public Works Auditor previously to October 1863, were incorrect, because I knew nothing of the works mentioned in paragraph 4.

6. The Revenue Board have called for a quarterly statement, I believe, under a misunderstanding, as I have always in other Districts submitted mine monthly to the Deputy Chief Engineer or Auditor; and as far as lay in my power have done so in this Division. I believe the Revenue Board issued their instructions on receipt of G. O. No. 908 of the 27th May 1863, in which Department Public Works Officers are informed that Government look upon them as responsible for the expenditure of Local Funds, it is clear that as long as the present state of matters exists in the Division, I cannot have any proper control over them.

7. My impression was that when the Revenue Officers undertook any work, whether from Imperial or Local Funds, they came so far under the control of the Department Public Works that they received their funds from, and submitted their accounts to the Officers of the Department, who compiled the monthly accounts and prepared the bills for the Auditor Department Public Works.

8. That the Department Public Works Officers also would prepare the annual accounts; but instead of forwarding them direct with an Administration Report to Government, they would submit the accounts to the Collector, who would draw up the report and forward it to the Revenue Board, who in the conclusion of G. O. No. 908, are desired to see to the punctuality of their submission.

No. 92. ORDER THEREON, 7th January 1864, No. 43.

1. The Rules for the management of Local Funds are, in the main, the same as those printed at page 289 of Grant's Circular Order Book. Since their promulgation the new Budget Rules came into force, and agreeably to paragraph 42 of the latter, a Budget of Local Funds has annually to be prepared on the principle of that for Imperial works. The selection of works to be carried out from Local Funds rests with the Collector and Superintending Engineer conjointly, but their execution, as the rules provide, should be undertaken under the orders of the

latter Officer, except in particular cases when circumstances may render it desirable to entrust it to other agency. In making this latter provision, however, the rules contemplate a mutual agreement between both Departments when the course referred to is adopted. The Budget is supposed to contain the requisite provision for carrying out works to the full extent of the available collections under all heads of income; but it may so happen that in some cases the local authorities may not be in a position to determine with accuracy the amount that will be available, which may therefore be either over or under-estimated. In such cases the authority of Government will be indispensable for the appropriation of the over-plus or of the reduced sum, in the same manner as all other appropriations in the Budget which come under its direct cognizance when the Budget is reviewed and finally approved with such amendments as the circumstances of particular cases may render necessary. The tolls levied from the Andiputty Pass and referred to by Captain Moberly in paragraph 2 of his letter, should, under the decision of Government in the Revenue Department, dated 7th July 1863, No. 1,215, have been credited to Local Funds and used in the manner enjoined by the rules. The Collector will be requested, through the Board of Revenue, to explain the proceedings alluded to by the Superintending Engineer in paragraphs 2 and 3.

2. The attention of the Board will be requested to paragraphs 4 to 8 of the Superintending Engineer's letter. Although the rules in force do not prohibit the Revenue Department carrying out certain works from Local Funds when such an arrangement may be expedient, it is still essential, as pointed out above, that before works are carried out by any official belonging to other than the professional Department, there should be a mutual concurrence between both Departments, and that the Collector should render the Superintending Engineer accounts of such expenditure to be audited and forwarded to the Controller and Auditor of Public Works Accounts. The circumstance of the funds being in the Treasury of the Collector, does not place them absolutely at his disposal. To ensure the satisfactory management of the Local Fund appropriations, unity of action is primarily requisite, and the Board will therefore impress upon Collectors the necessity of their acting in concert with the Engineer Department to secure the profitable investment of local collections.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 93. Read the following letter from Lieutenant-Colonel C. V. WILKIESON, R. E., Controller and Auditor of Public Works Accounts, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 17th December 1863, No. 2,126:—

SIR,

In submitting the enclosed two bills amounting to Rupees 85-12-2, being the cost of Hammers purchased from the local market for the use of the 1st and 3rd Ranges in the Madura District, received from the Superintending Engineer, 8th Division, I have the honor to request that sanction of Government may be accorded for the same being met out from the allotment of Rupees 18,000 set apart on account of stores likely to be purchased in India during the year 1863-64.

Two Bills.

No. 94. ORDER THEREON, 7th January 1864, No. 44.

Sanctioned accordingly.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 95. Read the following letter from Mr. W. C. WILLIAMS, late First Class Sub-Overseer in the Department Public Works, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Tripatore, 9th December 1863:—

SIR,

1. I beg respectfully to address you these few lines, and to submit for the favorable consideration of Government the following circumstances connected with my claim for salary and travelling allowance as a Sub-Overseer of the 1st Class in the Public Works Department, from 1st to 22nd April 1863, and earnestly to solicit that Government may be pleased to accord their sanction to the settlement of my claim by the Civil Auditor.

2. An Order of Government was communicated to me, in which it was directed that the reductions in the Public Works Department were to have effect from the 31st March 1863.

3. Although the Order was received by me on the 1st of April and I was prepared to make over charge of my Táluq, I regret to state that Captain Clay, then my Range Officer, did not

relieve me from my duties on the above date, but requested me to continue in charge of my Táluq until he should relieve me; I was in duty bound to obey this order. On the 22nd April 1863, Captain Clay being prepared to relieve me, I made over to him on that date, the charge of my Táluq.

4. The abstract for my salary and travelling allowance for the above period was in due course submitted to the Civil Auditor, and though duly authenticated by Captain Clay and Captain Gahagan, the late District Engineer of Salem, it was notwithstanding objected to, thus depriving me of salary and travelling allowance I am fairly entitled to. This I feel to be a great hardship, and beg that Government may be pleased to direct an investigation into my case with a view to an early adjustment of my claim to salary and travelling allowance for the above period, amounting to Rupees 51-5-4, and for which act of kindness I shall be deeply grateful.

	RS.	A.	P.
Pay for 22 days at 40 Rs...	29	5	4
Travelling allowance for 22 days at 30 Rs.	22	0	0

No. 96. ORDER THEREON, 7th January 1864, No. 45.

The Government admits the justice of the claim brought forward, but is of opinion that it should have properly been made against Captain Clay than against the Government. That Officer, however, being no longer employed in the Department of Public Works, the Government resolve to direct the Controller and Auditor of Public Works Accounts to pass to the late Sub-Overseer Williams the salary and travelling allowance due to him from the 1st to 22nd April 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 97. Read the following letter from Lieutenant-Colonel J. C. ANDERSON, R. E., Superintending Engineer, 2nd Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Masulipatam, 14th December 1863, No. 33:—

SIR,

1. Referring to the Order of Government No. 3,414, dated 21st ultimo, paragraph 10, directing me to submit a separate report of the alterations of Ranges recommended in my letter No. 494-87, dated 10th September 1863, I have the honor to state that at present there are three Ranges to the north of the river Kistna. The 6th and 7th occupy portions of the Delta, and the 5th comprises the upper portion, including about sixteen miles of the Masulipatam Canal, the Ellore Canal, and Ryves' Main Channel and intervening works together with the non-Delta Táluqs.

1 Sketch showing the Ranges.

2. The arrangement of the 6th Range is inconvenient. The head quarters are at Gudivada, at the distance of about thirty miles from Bezoarah, and the Officer in charge has no means of making himself acquainted with the changes of the river and the effect produced in the supply of the main channels. He is thus unable to take timely precautions to prevent damage occurring from an excessive supply; and in cases of a scarcity he is at a loss to judge whether it is likely to be of a temporary nature or not.

3. The Officer in charge of 5th Range, who has charge of the heads of all the main channels which supply the 6th Range, has, on the other hand, difficulty in ascertaining what quantity of water is required in the 6th Range, and occasionally much valuable time is lost in reference.

4. It is very desirable, in my opinion, that the 6th Range should be incorporated with the Delta portion of the 5th Range and partly with the 7th Range, which now that the Masulipatam Canal is almost completed can be enlarged to the extent proposed without over-burdening the Officer in charge, and that the non-Delta portion of the present 5th Range should be formed into a separate charge.

5. The new 6th Range would include the Anicut and Workshop, and would be in charge of the senior Officer in the District. Head quarters Bezoarah.

6. The head quarters of the 7th Range would remain, as at present, at Masulipatam. Although it might be supposed that the inconvenience explained in paragraph 2 would also be experienced in this Range, it is not so in reality. The distribution of water is less intricate than is the case in the present 6th Range, and the Telegraph is available in cases of emergency, which however are of rare occurrence.

7. Though Bezoarah is not central for the proposed 5th Range, I would advocate the head quarters being fixed there. The improvement of river embankment from Bezoarah to Ibrampatam, lately sanctioned,* the most difficult portion of the Hyderabad road, and a number of considerable tanks in the valley of the Boo d nair constituting together the most important part of the Range, are all within easy access of Bezoarah. Office accommodation is also available.

* G. O. No. 3,213, dated 4th November 1863.

8. The head quarters of No. 1 Range on the south side of the river is at Dooggerolla, twelve miles from Bezoarah. I would recommend their being moved to the latter with a view to familiarize the Officer in charge who has the management of the heads of all the secondary channels in the Guntoor Delta, with the action of the river and with the regulation of the supply of the main channels.

9. A sketch showing the proposed distribution of Ranges is attached.

No. 98. ORDER THEREON, 7th January 1864, No. 46.

1. The Governor in Council approves of the proposed re-distribution of the Executive Ranges of the Kistna District, and directs that the arrangement be carried into effect without delay.

2. The Plan submitted by the Superintending Engineer will be retained for record in this Department.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 99. Read the following Proceedings of the Madras Government in the Military Department:—

Approving of the Estimate of Rupees 780 for constructing a masonry open drain and a tunnel near the Horse Artillery Lines in the Recruit Depôt at Saint Thomas' Mount, Madras District. } (Here enter 22nd December 1863, No. 4,078.)

No. 100. ORDER THEREON, 7th January 1864, No. 47.

1. Communicated to the Superintending Engineer, 4th Division, for information and guidance.

2. The cost* of the work will be met from the current year's Reserve.

* Rupees 780.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 101. Read the following letter from J. SILVER, Esq., Collector of Tinnevelly, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Tinnevelly, 28th December 1863, No. 390:—

SIR,

With reference to the Proceedings of Government in the Revenue Department, dated 14th December 1863, No. 2,283, embodying a communication from the Superintending Engineer, 8th Division, dated the 24th November, in which he states that he cannot procure from me any statement showing the order of the importance of the Sub-Magistrates' Cutcherries and Subsidiary Jails required to be constructed in this District, I have the honor to forward to you copy of my letter to Captain Moberly on the subject, dated the 14th November.

No. 102. ORDER THEREON, 7th January 1864, No. 48.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 103. Read the following Proceedings of the Madras Government in the Military Department:—

Approving of the Estimate of Rupees 360 for constructing a Bath-room to the Hospital Serjeant's Quarters and one to the Matron's Quarters at the Garrison Hospital, Saint Thomas' Mount, Madras District. (Here enter 23rd December 1863, No. 4,085.)

No. 104. ORDER THEREON, 7th January 1864, No. 49.

1. Communicated to the Superintending Engineer, 4th Division, for information and guidance.

2. The cost* of the work will be met from the current year's Reserve.

* Rupees 360.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 105. Read the following Proceedings of the Madras Government in the Ecclesiastical Department:—

Requesting that instructions may be issued for the preparation, in communication with the Collector of Malabar, of a Plan and Estimate for a Church at Tellicherry. (Here enter 22nd December 1863, No. 303.)

No. 106. ORDER THEREON, 7th January 1864, No. 50.

Communicated to the Superintending Engineer, 7th Division, for information and guidance.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 107. Read the following Proceedings of the Madras Government in the Judicial Department:—

Requesting that a sum of Rupees 10,000 may be entered in the Budget of 1864-65 for the Jail to be built at Madura, and stating that the Plan and Estimate will be sent to the Inspector General of Jails, for any alteration he would propose. (Here enter 19th December 1863, No. 1,974.)

No. 108. ORDER THEREON, 7th January 1864, No. 51.

Communicated to the Superintending Engineer, 8th Division, for information.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 109. Read the following letter from Lieutenant-Colonel C. HILL, R. E., Commandant Sappers and Miners, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Dowlaishweram, 17th December 1863, No. 30:—

SIR,

With reference to Proceedings of Government and Order thereon No. 3,462 of the 25th November 1863, I have the honor to inform you that the Officers as per margin are desirous of being employed in the Provinces administered by the Government of India.

Lieutenant P. S. Marindin, R. E.
" W. G. Cumming, R. E.

No. 110. ORDER THEREON, 7th January 1864, No. 52.

Ordered that the following Telegram be sent:—

"*To the Secretary to the Government of India, P. W. D., Calcutta.*

"Lieutenants Marindin and Cumming, Royal Engineers, have applied for employment under Government of India, shall their services be placed at disposal of that Government."

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Proceedings of the Madras Government, Public Works Department, 7th January 1864.

No. 111. Read the following letter from Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Cotamputty, 12th December 1863, No. 1,492 :—

SIR,

1. I regret to find from Government Order No. 3,517 of the 30th ultimo, that my No. 669 of 18th September was not sufficiently clear; my object in forwarding the two maps was, as Government suppose, to show the lines advocated by the Collector and myself respectively.

2 Sketches.

2. I quite agree with Mr. Levinge that it would be a great benefit to the District if all the roads he mentions existed, but considering the amount of money likely to be available, I think he has laid too great stress on *direct* communication, overlooking the natural difficulties. My object has been to have a few main lines, and a good network of feeders, my map is more in rectangles, which Mr. Levinge has turned into triangles by insisting on the diagonals in addition.

3. As regards the specific instance of the road to Ramnad (which in a late letter Mr. Levinge still prefers direct and even to that to Tondy altogether) the only reasons that I can find for a direct line, are those given in paragraph 7 of my No. 669, but I believe that it would be really a public convenience if the post were sent through Shevagunga where, as the residence of a Zemindar, an office might very properly be opened; the Police are on both lines of road and may therefore be left out of the account; and the sole reason in favor of Mr. Levinge's plan would be the existing Moonsiff's Courts, which do not, as far as I can see, affect the traffic.

4. The direct line advocated by Mr. Levinge would cost Rupees 1,50,000 to construct, beside the cost of twice crossing the Vigay; it is expensive because it runs almost entirely through black cotton soil. On the other hand, the line by Shevagunga to Tondy passes for a great distance over sand and gravel; Rupees 33,316 have been already sanctioned for it, if the branch to Ramnad were taken off at Shevagunga instead of at Tiroopuvanum, we should have to make only 40 miles instead of 62, the saving in expense would probably be Rupees 45,000.

5. Mr. Levinge proposes to defer the Tondy line altogether, but this is opposed to the policy in Government Order No. 3,441, dated 24th ultimo, where I am informed that Government prefer to complete one line before they begin another; the line to Tondy is a salt line, if the Government agree with Mr. Levinge that it will be better to complete the communication with Ramnad first, I would still urge the advisability of going from Shevagunga, as the road so far is already in very fair order.

6. As regards the third road mentioned in paragraph 5 of my No. 669, if the Revenue Board consider it advisable to make a line by Tripattoor and Cotamputty to Dindigul, there still remains the question whether it shall run from Vattanum to Tripatoor over very difficult soil, or branch from the Tondy and Shevagunga line at Teruvampett; here again the question arises as to the construction of the road from Madura by Shevagunga to Tondy, which I respectfully submit is the base of all the others.

7. Another matter of consideration has lately occurred to me in connection with the salt traffic; all our plans are founded on the idea that Madura (and I may say Tinnevelly) will continue to sell as much salt as in former days, this it appears to me is very doubtful. I am informed that as yet the sale has not been materially affected; but I believe that before long the south of Coimbatore and even the north of Madura will receive its salt from Negapatam by the Great Southern India Railway, in exchange for cotton, much of which I believe even this year has gone to that port instead of to Tuticorin; the Madras Railway too will doubtless supply the same tract of country, which is nearer to Avenashy than it is to the coast, and has already far better communication than we can make for some time to come.

8. Since forwarding my No. 669 I have seen reason to disagree with the Collector as to another line which I think is worthy of consideration. I forwarded lately an Estimate for the construction of the road from Terumangalum to the Coimbatore frontier by Pulny, which was sanctioned in Government Order No. 3,453 of 25th November 1863.

9. From Pulkanooth to Ammianaickanoor this line traverses a great amount of black cotton soil, which would be almost entirely avoided if the road were carried seven miles further by Dindigul. In our scheme this loop is also inserted, but the Collector would prefer transferring it to the District Statement to giving up the direct line; why, I am at a loss to know. If we gave it up, we should save on the two about 30,000 Rupees.

10. If the salt line from Vattanum by Cotamputty is really valuable, I presume it must also be extended from Dindigul to Pulkanooth, this is half the loop.

11. But I imagine that before long we shall find the traffic setting in towards the Railways near Caroor; and in that case Dindigul will be a considerable entrepot. From the Cumbum valley by Shevelshadagu, and from north Tinnevelly and Madura, the line by Ammianaickanoor will run up through Dindigul to Caroor. From Pulny the traffic will turn by Vadasaudur, so that altogether it appears to me a needless expense to make the direct road over bad soil and to leave out Dindigul the roads through which would be more cheaply made.

No. 112. ORDER THEREON, 7th January 1864, No. 53.

1. With reference to paragraphs 1 to 5 of this letter the Superintending Engineer will be informed that the Governor in Council is unwilling to re-open the question which he has already definitively settled* in regard to the direction of the road from Madura to Ramnad. Captain Moberly remarks that in Proceedings dated 24th November 1863, No. 3,441, the Government stated that it preferred to complete one line before undertaking another. On reference to those orders it does not appear that any such opinion was expressed; but allusion is probably made to Proceedings dated 3rd November 1863, No. 3,206. Nothing, however, that is therein stated precludes preference being given to one line over another in carrying out the arrangements approved of, and in the questions now at issue the Government considers it advisable to defer to the opinion of the Collector.

* Procs. 30th November 1863, No. 3,517.

2. Referring to paragraph 6 of his letter, Captain Moberly's attention will be drawn to the Board's Proceedings recorded in those of Government dated 18th December 1863, No. 3,751, and he will be informed with advertence to paragraphs 7 to 11 that any observations or suggestions he may have to make on matters affecting the salt revenue and on which he may be at variance with the Collector, should, in the first instance, be submitted for the consideration of the Board of Revenue.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 113. Read the following letter from Captain O. W. S. CHAMBERS, R. E., Superintending Engineer, 1st Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Waltair, 17th December 1863, No. 1,971:—

SIR,

8th December 1863, No. 3,617.

1. In acknowledging the receipt of the Order of Government as per margin, I do myself the honor of observing that the Adjutant General must have entirely forgotten his letter of the 24th of March last, No. 971, in which he states that His Excellency the Commander-in-Chief "sanctions the free discharge from the service" of the then Serjeant T. D. Harris.

2. The Serjeant's claims were adjusted and a report of the same made to the Chief Engineer by Major Stoddard on the 22nd April last, No. 798.

3. Mr. Harris has since been drawing pay for months past as a Civilian, and it is rather late in the day to observe now that his Military Services cannot be dispensed with.

No. 114. ORDER THEREON, 7th January 1864, No. 54.

Communicated to the Military Department, with reference to the Orders in that Department, No. 3,834, dated 2nd December 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 115. Read the following Proceedings of the Madras Government in the Military Department:—

Approving, for execution, of the Estimate of Rupees 350 for erecting a cast iron Cooking Range in the kitchen of the Officers' Mess Room in Fort Saint George, Presidency District. } (Here enter 19th December 1863, No. 4,060.)

No. 116. ORDER THEREON, 7th January 1864, No. 55.

1. Communicated to the Superintending Engineer, 4th Division.

2. The cost* of the work will be met from the current year's Reserve.

* Rupees 350.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 117. Read the following letter from Lieutenant-Colonel E. HEMERY, R. E., Superintending Engineer, 3rd Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Cuddapah, 22nd December 1863, No. 245 :—

SIR,

In continuation of my letter as per margin, I have the honor to inform you that Mr. Hasler, Supervisor in charge of the Kudlighi Range, reports that so utterly unprovided is his Range with accommodation for an Office, that he is obliged to keep the greater portion of his records at Hospett (which is not in his Range) to his great inconvenience and to the detriment of the public service.

No. 237, 14th December 1863.

No. 118. ORDER THEREON, 7th January 1864, No. 56.

Recorded, with reference to Proceedings of Government marginally noted.

No. 3,826, dated 24th December 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 119. Read the following Telegram from Colonel BEADLE, Calcutta, to the Secretary to Government, Madras, dated 29th December 1863, No. 224 :—

The Imperial Public Works Budget grant for eighteen hundred sixty-four sixty-five for Madras will be sixty-four lacs exclusive of Income Tax Fund. Further orders will follow.

No. 120. ORDER THEREON, 8th January 1864, No. 57.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 121. Read the following Telegram from Colonel BEADLE, Calcutta, to the Secretary to Government, Madras, dated 1st January 1864, No. 5 :—

The Government of India desires that the services of the two young Engineer Officers named may be placed at their disposal, one of them being ordered by the first opportunity to Port Blair, Andaman Islands, for employment under the Executive Engineer there, the other being ordered to Calcutta.

No. 122. ORDER THEREON, 8th January 1864, No. 58.

Resolved that application be made to His Excellency the Commander-in-Chief, through the Military Department, for the services of the Officers marginally noted being placed at the disposal of the Government of India for employment in the manner proposed in the foregoing Telegram.

Lieutenant P. S. Marindin, R. E.
" W. G. Cumming, R. E.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 123. Read the following Proceedings of the Madras Government in the Revenue Department :—

Requesting the Superintendent of Revenue Survey to have all the Theodolites of Barrow's make, stated to be on hand, carefully examined, and to report the result. (Here enter 21st December 1863, No. 2,352.)

No. 124. ORDER THEREON, 8th January 1864, No. 59.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 125. Read the following Proceedings of the Madras Government in the Ecclesiastical Department:—

Requesting to issue the necessary orders to the Officer in charge of the Range to prepare a Plan and Estimate for the erection of a small Church at Pulicat, Madras District. } (Here enter 24th December 1863, No. 307.)

No. 126. ORDER THEREON, 8th January 1864, No. 60.

Communicated to the Superintending Engineer, 4th Division, for early attention with reference to paragraph 1.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 127. Read the following Proceedings of the Madras Government in the Military Department:—

Communicating letter from the Adjutant General, stating that there is no objection to the services of Lieutenants Morant and Pennefather being placed at the disposal of the Government of Bombay for employment in the Public Works Department at that Presidency. } (Here enter 18th December 1863, No. 4,040.)

No. 128. ORDER THEREON, 8th January 1864, No. 61.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 129. Read the following Proceedings of the Madras Government in the Military Department:—

Approving of the approximate Estimate of Rupees 378 for building a substantial rear verandah, enclosed with honeycomb work, to the Guard-room, D. Battery, 3rd Brigade Royal Horse Artillery at Bellary. } (Here enter 19th December 1863, No. 4,056.)

No. 130. ORDER THEREON, 8th January 1864, No. 62.

Communicated to the Superintending Engineer, 3rd Division, with an intimation that the cost of the work, viz., Rupees 378, will be provided from the current year's Reserve.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 131. Read the following Proceedings of the Madras Government in the Judicial Department:—

Sanctioning the proposed alteration to the building which is being converted into a subsidiary Jail at Russelcondah at an estimated cost of Rupees 418. } (Here enter 24th December 1863, No. 2,015.)

No. 132. ORDER THEREON, 8th January 1864, No. 63.

1. Communicated to the Superintending Engineer, 1st Division, for information and guidance.

2. The cost of the works now sanctioned, and of that referred to in paragraph 3 of the Superintending Engineer's letter recorded in the foregoing Proceedings, will be met from the source mentioned in paragraph 4 of that letter. Captain Chambers is, however, reminded that the current year's allotment for the road from Mojagoda to Sankerkole is Rupees 16,900 and not Rupees 18,828.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 133. Read the following Proceedings of the Madras Government in the Marine Department:—

Communicating letter from the Master Attendant in charge of the Marine Superintendent's Office, intimating that application has been made to the Superintending Engineer, 7th Division, to furnish an Estimate for repairing the Flag Staff at Cochin which is reported to have been seriously injured by lightning. } (Here enter 22nd December 1863, No. 327.)

No. 134. ORDER THEREON, 8th January 1864, No. 64.

Communicated to the Superintending Engineer, 7th Division.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 135. Read the following letter from Lieutenant-Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 26th December 1863, No. 1,296 :—

SIR,

1. With reference to the Proceedings of Government No. 3,759, dated 19th December 1863, I have the honor to report that owing to the demands for the repairs of irrigation works in the Madras District being very urgent, and far in excess of what the allotment Rupees 38,000 under the heading Agricultural would cover, I found it necessary to allot to that District the whole of the additional amount, Rupees 4,300, granted in the Proceedings of Government No. 3,267, dated 11th November 1863, which I did in the following manner :—

MADRAS.

AGRICULTURAL.

		RS.	
	Canals.		
1.	Filling in breaches in the Bungaroo channel bank, north of Place's Garden	605	
2.	Emergent repairs to the Red Hill Tank supply channel ...	35	640
	Tanks.		
1.	Emergent repairs in the Valachary Chittairy Tank	46	
2.	Repairs to the Coatoor Hissa Tank and supply Channel ...	1,201	
3.	Do. Goondypoondy Tank	1,310	
4.	Do. Paudy Tank	194	
5.	Do. Goondy Poody Tank	293	
6.	Emergent repairs to the Verapuram Tank Chittairy Bund ...	211	
7.	Do. do. Amypaukum do.	43	
8.	Repairs to the Buderi Tank	359	3,657
	Balance remaining...		3
	Total...		4,300

2. In the Proceedings now under reply the word "Madras" in the second line should be substituted for the words "North Arcot."

No. 136. ORDER THEREON, 8th January 1864, No. 65.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 137. Read the following Proceedings of the Madras Government in the Military Department:—

Communicating letter from the Quarter Master General offering certain observations on the Estimates for fitting Lightning Conductors to Magazines, &c., at certain Stations, and approving of the same. (Here enter 23rd December 1863, No. 4,090.)

No. 138. ORDER THEREON, 8th January 1864, No. 66.

1. Communicated to the Superintending Engineers 1st, 2nd, 3rd and 7th Divisions, for information and guidance.

2. From Colonel Hemery's letter No. 233, dated 7th December 1863, the Government observes that the Estimates amounting to Rupees 25 for altering the Lightning Conductor to the Powder Magazine at Kurnool is to be charged against the allotment for that District under the head " Minor new works."

	RS.
Fitting Lightning Conductor to the Magazine in Cuddapah,	1,560
Altering do. to Grand Magazine in the Bellary Fort.	1,620
Do. do. to the Small Arm Ammunition Expense Magazines attached to the Regiments stationed in Bellary	1,660

3. The Estimates mentioned below being less than Rupees 1,000 each will be met from the current year's Reserve and those marginally noted will be entered in the Budget for 1864-65 :—

		RS.
1st Division.	Fitting Lightning Conductors to the Magazine at Berhampore,	210
	Do. do. do. at Russelcondah,	140
	Refixing 2 do. do. do. at Vizagapatam,	530
	Do. 4 do. do. do. at Vizianagram,	830
2nd Division.	Fitting do. do. to one of the Magazines at Masulipatam	236
3rd Division.	Altering do. to the 2nd Magazine in the Bellary Fort...	966

4. The Estimate amounting to Rupees 204 for alterations to the Lightning Conductors at Wellington will be provided from the sum of Rupees 500 sanctioned in G. O. No. 1,662, dated 25th June 1863, for minor new works in the Coimbatore District.

5. Lieutenant-Colonel Walker is requested to state the particular allotments from which the amounts of the undermentioned Estimate are to be defrayed :—

	RS.
Alterations to the Lightning Conductors at Cannanore, ...	390
Do. do. at Malliapooram, ...	80

6. The attention of the Superintending Engineers, 3rd and 8th Divisions, will be requested to the remarks contained in paragraphs 2 and 3 of the Quarter Master General's letter recorded in the foregoing Proceedings.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 139. Read the following letter from Lieutenant-Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 30th December 1863, No. 4,320 :—

SIR,

With reference to the Proceedings of Government No. 3,773, dated 21st December 1863, I have the honor to observe that, while the instructions contained in their Orders of the 16th idem No. 3,709, to the effect that Superintending Engineers should furnish the Accountant General with Statements of cash balances *as soon as possible after the close of the month to which they refer*, can and will be acted up to; the orders conveyed in the Proceedings under notice, that such returns should be sent to the Accountant General *on the 1st of each month*, are simply impracticable, as Government are aware that these returns must be compiled from similar returns furnished by Range Officers which cannot all reach this Office till the 3rd or 4th of any month.

No. 140. ORDER THEREON, 8th January 1864, No. 67.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 141. Read the following letter from Lieutenant-Colonel E. HEMERY, R. E., Superintending Engineer, 3rd Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Cuddapah, 21st December 1863, No. 242:—

SIR,

With reference to paragraph 2, Order of Government No. 2,451, dated 26th August 1863, I have the honor to report that Mr. O'Leary, Acting Táluq Overseer in the Bellary District, has passed the prescribed test for that grade, and has been furnished with a Certificate to that effect by the Principal of the Civil Engineering College, who states that "Mr. O'Leary passed a highly creditable examination."

No. 142. ORDER THEREON, 8th January 1864, No. 68.

As Mr. J. O'Leary has passed the examination prescribed for Táluq Overseers his appointment to that grade is confirmed.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 143. Read the following letter from Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Calicut, 15th December 1863, No. 257:—

SIR,

1. Funds being available in the current year for carrying out the works alluded to as sanctioned from Repair Funds of next year, in paragraph 3 of Government Order No. 3,291 of 13th November, I have the honor to request permission to have the alterations made at once.

2. With such permission I shall feel obliged by your sending the original Plans, copies of which have not been kept, their importance not appearing to justify that trouble.

---

1. The Superintending Engineer, 7th Division, is requested to submit a Memorandum showing the allotments from which the cost of the repairs referred to is to be defrayed. The amount proposed to be taken from each sub-divisional head of repair should be clearly stated.

2. Two enclosures were forwarded to the Superintending Engineer with G. O. No. 3,291, dated 13th November 1863.

3. The other two received from the Judicial Department are herewith sent.

Chepauk, (Signed) CHARLES. A. ORR, Colonel, R. E.,
18th December 1863. *Secretary to Government, P.W.D.*

To the Superintending Engineer, 7th Division, with two enclosures.

MEMORANDUM OF PROPOSED APPROPRIATIONS.

CANARA DISTRICT.

Rupees	320	from "Police"	out of Rupees	428 available.
,,	80	,, "Jails"	,,	80 ,,
,,	100	,, "Military Staff"	,,	198 ,,
,,	35	,, "General, Miscellaneous"	,,	35 ,,
Total...	535			

Coonoor, (Signed) G. W. WALKER, Lieut.-Colonel, R, E.,
1st January 1864. *Superintending Engineer, 7th Division.*

No. 144. ORDER THEREON, 8th January 1864, No. 69.

Repairs, &c. to the Sub-Magistrate's Cutcherry at Mangalore, Buntwal, Cundapur and Cassergode. Estimate Rupees 535 sanctioned in G. O. No. 3,291, dated 13th November 1863.

The Governor in Council sanctions the execution of the works marginally noted, from the funds particularized in the Memorandum from the Superintending Engineer, 7th Division, dated 1st January 1864.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 145. Read the following Memorandum from the Controller and Auditor of Public Works Accounts, dated Madras, 22nd December 1863, No. 2,141:—

Read the following letter from Lieutenant-Colonel J. C. ANDERSON, R. E., Superintending Engineer, 2nd Division, to Lieutenant-Colonel C. V. WILKIESON, R. E., Controller and Auditor of Public Works Accounts, dated Masulipatam, 9th December 1863, No. 305.

1. Referring to G. O. No. 3,465, of 25th ultimo, informs that the information regarding paragraph 5 had already been forwarded to you in your Memorandum of explanation No. 1,837, dated 11th November 1863.

2. As regards the explanation of paragraphs 6 and 8 you will be able to furnish it from papers having reference to it in your possession.

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1. Submitted to Government with reference to the 5th paragraph of their Proceedings, dated 25th November 1863, No. 3,465.

(Signed) C. V. WILKIESON, Lieut.-Colonel, R. E.,
Controller and Auditor of P. W. Accounts.

No. 146. ORDER THEREON, 8th January 1864, No. 70.

1. It is clear from the foregoing explanation that the Ongole and Kotapatam road is being carried on without a sanctioned Estimate.

2. The Controller's Office should have noticed this irregularity when scrutinizing the Progress Reports of the 2nd Division for the months anterior to August last.

3. The Government expect to receive the Estimate without further delay.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 147. Read the following letter from Captain O. W. S. CHAMBERS, R. E., Superintending Engineer, 1st Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Waltair, 16th December 1863, No. 1,953:—

SIR,

1. With reference to my letter* as per margin, I do myself the honor of reporting to Government that in my opinion it is no use attempting to have any further dealings with Mr. Knight of Calcutta, the iron bridge contractor, and that if the Cocanada iron lattice bridge is to be built at all within any reasonable period, it must be built by this Department.

2 Plans.
1 Original letter.
1 Estimate.
1 Specification.
* No. 1,760 of 25th November 1863.

2. Enclosed is an original letter from Major Stoddard proposing to make up in the Dowlaishwaram Workshop the bridge in question, for which 64,000 Rupees have been sanctioned for expenditure in the present official year.

3. Enclosed are also plans, estimate and specification of the bridge, which in no wise differ from those already sanctioned to be worked up to by Mr. Knight, had he contracted for the work.

4. Major Stoddard is confident that he will be able to build the bridge cheaper than Mr. Knight would, and that even charging the very heavy percentage on the work which the support of the Establishment of the Workshop at Dowlaishwaram demands.

5. I do myself the honor of requesting the permission of Government to this undertaking: an order by telegraph to Major Stoddard to go on with the work would save time, as I am about leaving for Ganjam.

6. Later I shall report to Government whether any portion of the 64,000 Rupees sanctioned for the Cocanada bridge for the present year is available for other works.

No. 148. ORDER THEREON, 8th January 1864, No. 71.

1. Under the circumstances stated, the Governor in Council approves of the Cocanada iron lattice bridge being made up under the orders of Major Stoddard at the Dowlaishwaram Workshop.

2. The Government will await the receipt of the report promised in paragraph 6.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 149. Read the following Proceedings of the Madras Government in the Ecclesiastical Department:—

Authorizing the Chaplains and Lay Trustees of Saint George's Cathedral to make arrangements for the purchase of new lamps and new seats and for moving the Organ. } (Here enter 23rd December 1863, No. 306.)

No. 150. ORDER THEREON, 8th January 1864, No. 72.

Communicated to the Superintending Engineer, 4th Division.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 151. Read the following letter from Lieutenant-Colonel J. C. ANDERSON, R. E., Superintending Engineer, 2nd Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Masulipatam, 23rd December 1863, No. 39:—

SIR,

1. I have the honor to solicit sanction to substitute for the returns of traffic through the locks at Bezoarah and Seetanagram, which are submitted with the annual Progress Report, " returns of the traffic on the main canals at Bezoarah and Seetanagram."

2. As explained in the Administration Reports of the District Engineer Kistna for 1861-62 and 1862-63, the traffic through the head locks is no indication of the traffic on the *canals*, as the greater number of the boats that ply on the canals do not pass through the locks at all. Large shipments are made on the canal at Bezoarah of produce from the inland Táluqs, along the line of road from Hyderabad, and from the westward including a large quantity of cotton from the Palnad ; and Commissariat stores, salt, sugar, &c., from Masulipatam and Ellore, are brought up the canals and landed at Bezoarah, without ever passing through the head locks. With the numerous passenger boats it is the same. The propriety of the proposed charge must, therefore, be very obvious.

3. The Masulipatam and Ellore canals branch off from the main channel, at the distance of several hundred yards from the head, and if desired a separate return of the traffic on each can be submitted : and with the Progress Report for the current year I can furnish amended returns for the two previous years.

No. 152. ORDER THEREON, 8th January 1864, No. 73.

The suggestion contained in paragraph 1 is approved.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 153. Read the following letter from Captain O. W. S. CHAMBERS, R. E., Superintending Engineer, 1st Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Waltair, 18th December 1863, No. 1,985:—

SIR,

2 Estimates.
1 Letter.
1 Memorandum.

1. I do myself the honor of laying before Government two Estimates, amounting together to 116 Rupees, one for making certain alterations in the Veteran Barracks at Vizagapatam, the other for repairs to an out-house of the Royal Artillery Lower Patcherry at Waltair, a temporary building.

2. Accompanying these Estimates are a letter and a Memorandum from the Deputy Assistant Quarter Master General, Northern Division, in which that Officer states that the Major General Commanding the Division thinks that the works should be carried out as early as possible, as the one is of an emergent character, and the other requires immediate attention.

3. As I have several times reported to Government, I have greatly exceeded the sums allotted for the repairs of Military buildings in the Vizagapatam District, taking the money from roads which can ill-spare the amounts confiscated, and I am now unable to undertake a Military repair of the pettiest nature without a fresh assignment of funds.

4. If Government cannot make me a grant from the Reserve, the two works deemed so necessary by General Browne must stand over till the 1st of May next.

No. 154. ORDER THEREON, 9th January 1864, No. 74.

The Governor in Council grants authority for the cost* of the repairs referred to in this letter being met from the sum of Rupees 25,000, transferred from the head of Reserve to that of "Repairs" under the orders of the Government of India.

* Rupees 116.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 155. Read the following letter from Lieutenant-Colonel J. P. BEADLE, R. E., Officiating Secretary to the Government of India, Public Works Department, to the Secretary to the Government of Fort Saint George, in the Public Works Department, dated Fort William, 19th December 1863, No. 5,300 :—

SIR,

1. I am instructed to acknowledge the receipt of your letter No. 3,343, dated the 16th November 1863, and in reply to state that the Governor General in Council sanctions the expenditure of the following sums from the grant of four lakhs, provisionally allotted to Madras for Military Buildings :—

Public Works Department Circular, No. 18 G. G., dated 21st May 1863.

	RS.
Rooms for the performance of Divine Service, and for use as a School at Bellary	18,080
Recreation Room for the Battery of Artillery at Trichinopoly	5,200
Family Quarters at Cannanore	5,100
Total...	28,380

2. The Governor General in Council is pleased to sanction the extension, till the 16th December, of the time up to which Estimates for the works to be carried out from this provisional grant, may be sanctioned.

No. 5,301.

Copy forwarded to the Financial Department for information.

No. 5,302.

Copy forwarded to the Military Department for information, with reference to the Recreation Room at Trichinopoly.

No. 156. ORDER THEREON, 9th January 1864, No. 75.

Communicated to the Superintending Engineers 3rd, 6th and 7th Divisions, with a request that the works for which special grants have been sanctioned by the Government of India may be vigorously proceeded with during the current year.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Governmnt.

No. 157. Read the following letter from H. G. SMITH, Esq., Acting Collector of Cuddapah, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Cuddapah, 19th November 1863, No. 35:—

SIR,

I have the honor to forward copy of Colonel Hemery's reply to my letter left with you dated 2nd instant, in which I requested a fuller explanation as to the nature of the groyne which is said to have caused the fall of the Ethellacherroovoo bridge and which seems to me not a sufficient reason for a bridge so recently built to fall down, but not being an Engineer of course I am but an indifferent judge in the matter.

No. 158. ORDER THEREON, 9th January 1864, No. 76.

Recorded with reference to the Orders mentioned below:—

No. 3,329, dated 16th November 1863.

„ 3,606, „ 7th December „

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 159. Read the following Proceedings of the Madras Government in the Judicial Department, dated 26th December 1863, No. 2,024:—

Read the following letter from Lieutenant-Colonel S. O. E. LUDLOW, R. E., for Deputy Chief Engineer, Southern Circle, to Colonel W. I. BIRDWOOD, R. E., Secretary to Government, Public Works Department, dated Madras, 22nd December 1862, No. 88:—

SIR,

1. I have the honor to submit, for the sanction of Government, from the General Funds of the Salem District for the current year, a Plan and Estimate of Rupees 250 providing for the construction of two cells, viz., one for prisoners under trial, and the other for those sentenced to short periods, in the Sub-Magistrate's Cutcherry at Rasipoor, Salem District.

1 Proceedings of Board of Revenue, dated 19th December 1862.
1 Plan.
1 Report.
1 Abstract Estimate.

2. Additional accommodation being urgently required, work to the extent of Rupees 112 has been executed on this Estimate up to date of the District Engineer's letter,* at the request of the Collector.

* No 123, dated 8th November 1862.

3. The Collector has countersigned the Estimate, and the Board of Revenue† approve of the proposed work.

† Vide Proceedings, dated 19th December 1862.

1. The Governor in Council has deferred passing orders on the foregoing letter pending the receipt of a general report on the accommodation required for subsidiary Jails in the Salem District, which however has not yet been received.

2. The attention of the Magistrate will now be called to the subject. Meanwhile, the Estimate for additions to the Sub-Magistrate's Cutcherry at Rasipoor is sanctioned.

(True Extract.)

(Signed) A. J. ARBUTHNOT,
Chief Secretary.

No. 160. ORDER THEREON, 9th January 1864, No. 77.

1. Communicated to the Superintending Engineer, 5th Division.

2. It is presumed that the work now sanctioned has been already carried out.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 161. Read the following letter from Lieutenant-Colonel H. W. HITCHINS, R. E., Superintending Engineer, 5th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Salem, 23rd December 1863, No. 1,679 :—

SIR,

1. I have the honor to request that you will be good enough to inform me whether the Executive Engineer of Bangalore is authorized to prepare Estimates and Plans for the accommodation of a Light Field Battery at the Race Course at Bangalore, as well as for a Regiment of Dragoons, which he has been ordered to do by the Commander-in-Chief during His Excellency's recent visit at Bangalore.

2. There are F. 8 Ranges of Barracks, each calculated to contain one Troop, but in consequence of the great reduction in the strength of Cavalry Regiments while serving in India, it has been determined that five Ranges will answer for Barracks for the men to live in, and the other Ranges could have been adapted to other purposes, such as Hospital, Canteen, &c., but Captain Goddard has been directed to reserve these extra Ranges for the use of the Light Battery recently added to the strength of the Garrison.

3. The Commander-in-Chief has also directed Captain Goddard, in communication with the principal Medical Officers at Bangalore to prepare a Plan of Hospital, to accommodate not only the Dragoons, but all the Royal Artillery stationed at Bangalore, which I observe from an approximate Estimate that has been made will cost about 1,80,000 Rupees.

4. The project, therefore, has been materially altered, and if all His Excellency's instructions are approved of by Government, I will direct the Executive Engineer to prepare detailed Plans and Estimates accordingly ; but I wish the Government to observe that the accommoda-of the Dragoon Regiment on the Race Course, roughly calculated to cost about six lacs of Rupees, will now, in consequence of the great rise in prices of all commodities during the last six years, when the first cost was calculated, as also the extension of the original project as ordered by His Excellency the Commander-in-Chief, increase the Estimate to nearly ten lacs of Rupees.

5. There are no less than eighty-four buildings of different sizes which will be required, and I am afraid some time will yet elapse before the entire project will be ready for submission to Government, but it will give me greater confidence that our labors will not be wasted in maturing so large a project, if I have the authority of Government that all that has been ordered by the Commander-in-Chief has their approval.

No. 162. ORDER THEREON, 9th January 1864, No. 78.

Referred to the Military Department.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 163. Read the following letter from Lieutenant-Colonel J. C. ANDERSON, R. E., Superintending Engineer, 2nd Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Masulipatam, 28th December 1863, No. 42 :—

SIR,

I have the honor to request the sanction of Government to appoint late Sub-Overseer L. Sevaramiah,* Kistna District, to act as Táluq Overseer during Mr. Carlier absence on two months' leave on Medical Certificate to have effect from the 12th December 1863.

* At present employed as Writer and Accountant, 2nd Range Office, Kistna.

No. 164. ORDER THEREON, 9th January 1864, No. 79.

Sanctioned.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 165. Read the following letter from Lieutenant-Colonel J. C. ANDERSON, R. E., Superintending Engineer, 2nd Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Masulipatam, 24th December 1863, No. 40 :—

SIR,

I have the honor to request the sanction of Government to appoint late Sub-Overseer P. Coniah, Nellore District, to act as Táluq Overseer during Mr. Shilling's absence on six months, leave on Medical Certificate to have effect from the 15th November 1863.

No. 166. ORDER THEREON, 9th January 1864, No. 80.

1. Sanctioned.

2. Superintending Engineers will be informed that the sanction of Government is unnecessary to the appointment of members of the late Lower Subordinate Establishment or of passed Candidates to the grade of Táluq Overseer. A report of such appointments should however be submitted for record in this Department.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Read the following papers :—

No. 167. From S. BATES, Esq., Manager of the Indian Carrying Company (Limited), to A. J. ARBUTHNOT, Esq., Chief Secretary to Government, dated Madras, 22nd December 1863, No. 2,178/B 1.

SIR,

1. I have the honor to bring to the notice of Government the present state of the road between the Poothanoor Railway Station and Kullar, at the foot of the Coonoor Ghát.

2. It is now more than twelve months since this Company commenced operations on this road, during which time repairs have been going on, but I hesitate not to say that the road at the present time is heavier, more dangerous and difficult to work, than at any time previously. When we first entered upon the work our bullocks could do the journey between Poothanoor and Mettapollium with a transit in six hours, now it seems impossible to get over the ground by the same means in less than eight hours.

3. There are at present no less than ten diversions from the main road in consequence of the unfinished state of the bridges over the nullahs and small streams which cross the road.

4. To pass several of these breaks in a wheeled vehicle is a matter of considerable difficulty and danger (more especially so at night, at which time the greater part of the passengers travel over the road) requiring the utmost steadiness in the cattle and care on the part of the driver to prevent accidents.

5. Independent of the numerous breaks on account of bridges the road itself is much heavier than it might be, and it is to the system adopted in reference to the making or repairing of this that I wish more especially to direct attention.

6. The mode adopted at present is to cover the hard road to a depth of from 4 to 6 inches with broken stones without any small gravel to act as a binding, the consequence is, that a portion of these broken stones must be ground down to powder by the vehicles passing over them, to form a binding for the rest of the metal before any thing like a road can be formed. When this is once done the track is of course again covered with the broken stones which must again be ground down, and so on. This system will in time no doubt make a good road, but this could be achieved very much quicker and an immense amount of wear and tear of stock saved, if a coating of small gravel was laid over the rough broken stones.

7. In addition to other business, this Company convey the mails between the Poothanoor Station and Ootacamund, and *vice versa* and the state of the road is the cause of much delay in their transit.

8. In addition to the delays the loss experienced by the Company by the heavy work entailed on their cattle and vehicles is considerable, and seeing that this can be so easily remedied and that we are now called upon to pay a heavy toll for the use of the road, I have the honor to submit to Government the desirability of their issuing such instructions as will ensure the road being put in a better state.

9. We are prepared to run horse conveyances for passengers so soon as the road is fit.

Transferred to the Public Works Department.

(Signed) J. D. SIM,
For Chief Secretary to Government.

24th December 1863.

No. 168. *Report of Progress made in improving road from Railway Station at Poothanoor to the foot of Coonoor Ghát, from 1st to 15th December* 1863.

	Convict labour.							Poothanoor Feeder.			Remarks.
	Metal broken.	Spreading jelly.	Digging drains.	Metal collected.	Gravel work.	Rough stone work.	Amount expended.	Metal broken.	Metal spread.	Amount expended.	
	C. yds.	R. yds.	C. yds.	C. yds.	C. yds.	C. yds.	RS. A. P.	S. yds.	C. yds.	RS. A. P.	
9th Mile, north of Coimbatore ...	...	...	...	$210\frac{12}{27}$							Arrangements are being made for thoroughly metalling the Poothanoor feeder, as the late rains have proved that the material of which the road has been formed is not sufficiently hard to withstand the heavy traffic during wet weather. The road from Coimbatore to the foot of the Ghát is now in a satisfactory condition.
1st Mile, north of Goodaloor ...	...	...	...	...	$299\frac{12}{27}$						
1st and 2nd mile, do. do. ...	27	5,742	500	...							
2nd Mile, south of Matoopolliam...	...	2,070	682	...							
4th Mile, north of Matoopolliam...	172	143	750	..							
5th Mile, do. do. ...	...	...	...	...	...	50	442 15 3	$411\frac{1}{2}$	8,438	153 0 1	
	199	7,955	1,932	$210\frac{12}{27}$	$299\frac{12}{27}$	50	442 15 3	$411\frac{1}{2}$	8,438	153 0 1	

	RS.	A.	P.
Expenditure on Poothanoor feeder (Local Fund)...	153	0	1
Do. between Poothanoor and foot of Coonoor Ghát (Imperial Fund)...	442	15	3
Do. for bridges along the line of road	0	0	0
Total...	595	15	4

Coimbatore Range Office,
18th December 1863.

(Signed) D. H. TRAIL, Lieutenant, R. E.,
Assistant Engineer.

Transferred to the Public Works Department.

23rd December 1863.

(Signed W. H. KERR,
Deputy Secretary to Government.

No. 169. ORDER THEREON, 9th January 1864, No. 81.

1. The foregoing letter from the Manager of the Indian Carrying Company will be communicated to the Superintending Engineer, 7th Division, with a request that he will cause the work of putting the road from the Poothanoor Railway Station to the foot of the Coonoor Ghât into an efficient condition to be carried out with greater vigour.

2. It is observed from the fortnightly report recorded above that arrangements are being made for thoroughly metalling the Poothanoor Feeder, the late rains having proved that the materials of which the road has been formed are not sufficiently hard to withstand heavy traffic during wet weather. The Government will rely upon Lieutenant Trail's best exertions to remove the causes of the inconveniences of which the Manager of the Indian Carrying Company complains.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 170. Read the following papers :—

Proceedings of the Madras Government in the Revenue Department.

Passing orders on the Proceedings of the Board of Revenue, submitting with their remarks, letter from the Collector of Nellore reporting on the results of the Pennair Anicut. } (Here enter 10th December 1863, No. 2,249.)

No. 171. Proceedings of the Madras Government in the Revenue Department, dated 15th December 1863, No. 2,294.

Read the following letter from J. W. B. DYKES, Esq., Collector of Nellore, to J. D. SIM, Esq., Secretary to Government, Revenue Department, Fort Saint George, dated Nellore, 7th December 1863, No. 415 :—

SIR,

1. I do myself the honor to submit direct the information called for in the Proceedings of the Board of Revenue of the 24th ultimo, received on the 5th instant, so that the information required on the results of the Pennair Anicut at Nellore for 1862-63 may be laid before Government at one and the same time ; whilst a duplicate will be submitted in due course for the consideration and orders of the Board.

2. In paragraph 5. the Board require an Abstract Statement that should distinguish, in the gross, the area occupied before and since the construction of the Anicut, under tanks and channels connected with it, and the area, if any, directly irrigated from new channels. And this abstract if required I will hereafter endeavour to prepare, but now do myself the honor to submit approximately.

Gross approximate area occupied and irrigated before the Anicut was built.	Gross area occupied and irrigated since the Anicut was built.			Increase.
	Under Tanks and channels connected with it.	Under new Channels.	Total.	
Acres.	Acres.	Acres.	Acres.	Acres.
21,928.	32,874.	……	32,874.	10,946.

3. Taking the area occupied and irrigated last year, as the required area, since the construction of the Anicut, I have calculated the area occupied and irrigated before its construction with reference to the average rate per acre, as shown by last year's accounts, which we have in detail. And thus stated approximately, it will be observed an increase is shown in the general gross area of 11,000 Acres or 50 per cent., and the area irrigated from "new channels" is left blank.

4. The channels have been so much improved that all might be entered as new. But strictly speaking, we are dealing with an old system of irrigation, and as regards the classification required there is no area I could properly enter as "directly irrigated from new channels."

5. As regards the Nellore tank, I have the honor to state that this reservoir has been included not with reference to its present "Ayacut" or area of irrigation, but with reference to the part it is required to play in the Anicut scheme. As brought to the notice of Government in the letters noted marginally,* our area of direct irrigation is very limited. In 1862-63 it was only 3,000 Acres out of 32,000. With a precarious river like the Pennair, not an acre of this limited area would be safe were there not adjacent tanks to fall back upon. And what the lower reservoirs do for direct irrigation further off, the Nellore tank must do for the direct irrigation in the upper portion of the Delta. I am now allowing land to be taken up for direct irrigation on the strength of having the Nellore tank to fall back upon when the river fails us. And situated as it is, we could not well have a more valuable reservoir either for the purposes indicated or the general strengthening of the Anicut scheme. The whole of the waste water is either received by the Sarvapalli channel, or passed to other Anicut works. The whole of the used water is received either by the Iduru, Koduru, Krishnapatnam, or Sarvapalli channels. And thus closely connected, if we had not direct irrigation from both sources mixed up in many villages, I do not think any general results could be given for the Anicut with propriety, that excluded from the calculations the Nellore tank and its expenditure.

* Nos. 37 and 49, dated respectively the 17th November and 22nd December, 1862.

6. In paragraph 8, the Board observe that they find no information to show how far the increase apparent in the average revenue from 1856-57 to 1860-61 and in 1861-62, is due to the Anicut. And on this point I beg to state that there had been none given. As shown in the last page of Statement No. 3, whilst the revenue from direct irrigation from the channels in 1861-62 was Rupees 11,616, under the tanks it was Rupees 93,469. And of this amount, if any, how much was due to the obstructions caused in the river in the course of constructing the Anicut, and how much to the repairs executed on the reservoirs to the extent of Rupees 2,09,155, I am unable to distinguish or submit for the information of the Board. I believe that the Anicut had an effect, but that it is not possible or worth our while to distinguish it.

	Rs.
Anicut	3,18,860
Subsidiary works	1,41,205
Subsidiary Reservoirs	2,09,155
Total...	6,69,220

7. In paragraph 6, the Board observe that they nowhere find I was ever called on to submit any statements of expenditure or any such comparison as I have instituted. And in paragraph 9, the Board observe it is impossible to ascertain from my figures, the expenditure on the Anicut and its subsidiary works, or how far the increase of revenue affords a fair return for that expenditure, apparently blaming me in this second paragraph for not having been sufficiently explicit on a point they do not find I was required to touch upon. In Statement No. 1, however, in the column of remarks, I have given the required figures, and stated the total cost on the Anicut to be Rupees, 3,18,860 as shown by the accounts of this Office. Including the subsidiary works and reservoirs, I have similarly shown the total cost to be Rupees 8,69,220. And as the results of this expenditure, I have shown in my letter of the 27th July last, that the first year, the Anicut came fairly into play, on a revenue, for some time rising, there had been a sudden rise of 18 per cent. and a return on the expenditure of $6\frac{1}{4}$ per cent.,* and in my letter of the 29th August, similarly I have shown† that for so much of the Delta as our works were sufficiently advanced in to allow of the comparison being fairly made on the expenditure the gross returns might be considered 10 per cent., which I observed could be further taken as a rough indication of the results to be expected in the current year when the Krishnapatnam and Sarvapalli channels shall have come fairly into play, results which I trust the Government will consider satisfactory and a "fair return" on the capital expended.

Letter to Board 27th July 1863, No. 238, paragraph 10.

* Paragraph 13.

† Paragraph 3.

8. The Board then proceed to observe that as my calculations are directly opposed to the District Engineer's, "it is evident one Department or the other must be persistently maintaining "a wrong course." What the Department Public Works may be doing, it is not of course for me to answer. But whether as regards the Public Works or myself, I beg the Government to decide, whether on the correspondence before them, the Board are justified in making such an accusation against either the Public Works Department or myself. It is no easy matter to show the returns on an Anicut that supplements a long established system of irrigation. Any accounts that can be drawn up so as to give the required information clearer than those now

furnished, I shall be glad to adopt. And in drawing up "the elaborate statements which the "Board presume* are to be accepted as the periodical return the "Secretary of State desired to receive," I beg to state, I was actuated by no "*persistent*" intention to maintain a wrong course, but draw up statements that going fully into details might enable me to realize on a large expenditure of public capital, and form at the same time a sound basis for the report submitted and the collection and record of data for future reports.

* Paragraph 3.

9. In paragraph 13, the Board observe, I have not stated what I propose to make the Inámdars pay for the increased advantages derived by the Anicut. And on this point I beg to refer to my report to the Board of the 21st October, No. 362, showing 20,000 Acres as the area involved, and recommending that 4,000 Acres, the average area irrigated during the ten years from 1850 to 1860, should be taken as the basis, and the Inámdars as a rule made to pay for all they irrigated in excess.

10. What the Inámdars should be charged, that I proposed to make as far as possible a matter of agreement, with reference to any proposals I might receive from the Inámdars, after the Board's orders had been passed on the question of area. But for this purpose, either the Godavery rate or the Kurnool rate could be adopted as our standard, and if thought fit without further reference to private arrangements. The Kurnool rate, I must add, being in my opinion none too much.

11. In prescribing for myself a minimum assessment of Rupees 4 Annas 8 per Acre for the ordinary assessed lands as observed by the Board, I have been guided by what I found the marketable value of water. No special minimum was fixed. But I found Rupees 6 an Acre, consolidated assessment, was eagerly taken up; and, keeping to the prescribed rates in each village, I have endeavoured to give over the land applied for as much as possible at this rate of Rupees 6 an Acre, the water rate in each case being the difference between this consolidated rate and what the land would be assessed at, if assessed for "dry" cultivation.

12. Under Section 40, Regulation 2 of 1803 referred to by the Board, a Collector is prohibited from increasing the rate of "waram" without the permission of the Board. But this is I presume where the "waram" has been already fixed on the land. And to fix a "waram" or in this case an assessment after an Anicut has been built, with reference to what had been fixed on adjacent land before, would be to build a palace by a hovel and charge the same rent for both.

13. And having now submitted in detail such information as is in my power in respect to the points commented on by the Board, I beg to refer briefly to Colonel Anderson's letter of the 8th October to which I deferred replying, as I informed the Board* in my letter of the 26th October till he should have seen my report.

* 26th October, No. 346, to the Board.
28th idem, No. 290, to Colonel Anderson.
Copies sent.

14. Colonel Anderson, it will be observed, in reality agrees with me as to when the effects of the present Anicut must be looked for, and the points at issue are, 1st, should the expenditure on the tanks or subsidiary reservoirs be considered a normal charge against revenue; and 2ndly, can the effects of the two first Anicuts be readily ascertained. As regards the first point, I am of opinion that it is not a question of whether the expenditure would have been the same or nearly the same, whether the Anicut had been constructed or not, but whether the revenue under those reservoirs can be taken credit for for the Anicut and the expenditure ignored. And looking to the magnitude of the expenditure and the results that have followed similar expenditure elsewhere, I am of opinion, it cannot. Whilst, as regards the second of these two points and the possibility of distinguishing *Anicuts* here again, as I have already said, with reference to the total expenditure, all I can say is, if a distinction can be drawn between the results of the money spent on the Anicuts and the money spent on the reservoirs, I am at fault as to the mode to be pursued, but shall be ready to follow it if pointed out.

15. So far as I am aware, the instructions forwarded by the Government of India through the Accountant General refer to *new works;* they do not take into their scope the case of new works blended with old, and *depending* on the old works for their development.

16. The Nellore Tank, a further point raised by Colonel Anderson, I have already explained, has been incorporated with reference to its use as a reservoir to supplement Anicut irrigation; as one of the works on which Anicut irrigation from the Pennair must depend. And as regards the question asked by Colonel Anderson in the 4th paragraph of his letter, "how is it "possible the first Anicut commenced in 1854-55 could have had any influence on irrigation "works for the three previous years;" it is only necessary here to observe, that this question was asked before Colonel Anderson had seen my report, and from these reports he will have learnt

that the accounts were dated from 1851-52, as regards revenue, to afford the means of comparison, as regards expenditure to show so far as the accounts were available what had been of late years spent on our subsidiary reservoirs. Whether this latter object was material, and whether we can properly ignore an expenditure of Rupees 2,09,155, or not, it is for the Government to decide.

From J. W. B. DYKES, Esq., Collector of Nellore, to W. HUDLESTON, Esq., Secretary to the Board of Revenue, Madras, dated Nellore, 26th October 1863, No. 346.

SIR,

1. I have the honor to acknowledge the receipt of the Board's Proceedings of the 20th, No. 6,681, and state that I propose replying to any objection Colonel Anderson may have to make as to the mode in which the Anicut Returns have been drawn up, after furnishing him with a copy of my reports on the subject under dates the 27th July, No. 238, 12th August, No. 251, and 29th August No. 281, respectively.

2. Copies of these reports would have been sent to Colonel Anderson in the first instance, had I anticipated their being two and three months under consultation; I thought on the contrary they would be passed on and printed at once, as the Secretary of State had called for the information at an early date; and I applied for spare printed copies for Colonel Anderson and the other Officers interested, as preferable to the manuscript copies now being prepared with reference to the Board's Official Memorandum No. 849, dated 17th October 1863, informing me that the reports are still under consultation and not likely to leave the Board's Office for some time longer.

From J. W. B. DYKES, Esq., Collector of Nellore, to Lieutenant-Colonel J. C. ANDERSON, R. E., Superintending Engineer, 2nd Division, dated Nellore, 23th October 1863, No. 290.

SIR,

1. With reference to the Proceedings of the Board of the 20th October 1863, No. 6,681, and the accompanying letter from yourself of the 8th idem, No. 796, I have the honor to forward for your information copy of my reply* and of my report on the Anicut of the 27th July No., 238.

2. The other two† reports shall be sent as copied.

3. And in conclusion, I beg to call your attention to the correspondence noted marginally, copies of which have been furnished to your Office.

* No. 346, dated 26th October 1863.

† Nos. 251 and 281 of 12th and 29th August 1863.

1. Procs. of the Madras Govt. P. W. D., 12th June 1862, No 1,335.
2. Collector's letter to Acting District Engineer, Nellore, No. 311, dated 23rd October 1862, with its enclosures.
3. Do. do. No. 394, dated 24th Dec. 1862, with its enclosure.
4. Do do. No. 1, dated 8th January 1863.
5. Procs. of the Madras Govt. P. W. D., dated 5th May 1863, No 1,141.

(True Copies.)

(Signed) J. W. B. DYKES, *Collector.*

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1. The subject of paragraphs 9 to 13 will be considered when the Board's remarks are received.

2. The rest of Mr. Dykes' letter will be disposed of in the Department Public Works.

(True Extract.)

(Signed) J. D. SIM,
Secretary to Government.

No. 172. ORDER THEREON, 9th January 1864, No. 82.

1. The points discussed in these papers, and remaining for disposal in this Department, are as follows:—

(1.) The principle on which the revenue derived from the Pennair Anicut is to be computed, and the form in which the periodical Returns called for by Government is to be prepared.

(2.) The expediency of extending the Coast Canal to Kistnapatam.

2. On the first of these points the Collector and the Superintending Engineer are at issue. The former is of opinion that from the aggregate of the revenue derived from the land brought under the influence of the Anicut, such portion as is due to the tanks and channels now form-

ing part of the integral scheme, but which existed before the construction of the Anicut, should be eliminated; and that in calculating the return on outlay, the expenditure on the maintenance of those tanks and channels since the year 1851-52, or three years before the commencement of the first Anicut, should be taken into account. The Superintending Engineer objects to this mode of calculation, on the ground that the expenditure on the various irrigation works up to the year 1854-55 was quite unconnected with the Anicut scheme, and should not be charged against it. The Collector, in reply, states that during the three years in question a sum of Rupees 2,09,155 was spent in improvements to the old tanks and channels, and that in calculating the return from the Anicut, so large an outlay upon works which now form an integral part of the scheme cannot properly be ignored.

3. The Superintending Engineer also remarks that the Collector has allowed nothing for the effect produced on the revenue by the first two Anicuts, which were carried away in the years 1857 and 1858 respectively.

4. Mr. Dykes acknowledges that the revenue was influenced by these incomplete works, but considers it impossible to calculate it satisfactorily.

5. Colonel Anderson further objects to the expenditure on the Nellore tank being included with that on the Anicut and its subsidiary works, stating that the great mass of the tank Ayacut is above the level of the channel water, and can never derive any benefit from it. Mr. Dykes, however, considers it impossible to separate the Nellore tank from the Anicut scheme, and says that in so uncertain a stream as the Pennair, the Anicut irrigation would be comparatively valueless, were there not some such reservoirs as the Nellore tank to fall back on.

6. The Governor in Council does not consider it necessary to go into each of these points at issue. He quite concurs with the Board of Revenue in the sentiments expressed in paragraph 5 of its Proceedings. A Statement in abstract prepared on reliable data and exhibiting, in the gross, the results of the Pennair system of irrigation is all that is requisite. This Statement should exhibit the area irriga[illegible] under old tanks and channels now brought under the influence of the Anicut, and the average revenue derived thereform during the ten years preceding that in which the Anicut was constructed, as also the area since irrigated, including that directly watered b[illegible] new channels; care being t[illegible]ken to exclude the Ayacut which may be above the level of the channels. In juxtaposition [illegible]o this should be shown the expenditure on new works and repairs severally for each year d[illegible]ing the same period. With these statistics the Government will draw its own conclusions. It is satisfactory to note the results of the Anicut works in the year 1862-63 and the prospective advantages so confidently looked for.

7. The other point in the papers demanding notice is the extension of the Coast Canal. The Governor in Council has, however, forestalled the wishes of the local authorities and of the Board on this subject, and a report from Mr. Kennedy, accompanied by Plans and Estimates for the proposed extension, is now under consideration.

(Signed) CHARLES, A. ORR, Colonel, R. E.,
Secretary to Government.

No. 173. Read the following Endorsement of the Superintending Engineer, 4th Division, dated Ennore, 30th November 1863, No. 3,665 :—

Read the following letter from R. KENNEDY, Esq., Executive Engineer, 2nd Class, to Lieutenant-Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, dated Adyar, 2nd September 1863, No. 111.

SIR,

1. I have the honor to acknowledge your No. 2,005, dated 27th August 1863, enclosing five papers herewith returned, and inviting me to send in a report to Government of my present views upon the subject of a branch canal between Cochrane's Canal Basin and the beach at Clive's Battery.

1	Procs. of Govt. No.	397,	dated	6th March 1858.
1	Do. ,, ,,	942,	,,	18th May ,,
1	Do. ,, ,,	2,326,	,,	28th Sept 1859.
1	Do. ,, ,,	2,848,	,,	7th Dec ,,
1	Do. ,, ,,	142,	,,	5th April 1855.

2. I had occasion to survey and estimate for the proposed execution of this work under orders of the then Superintendent of the Eastern Coast Canal, and have given, then and since, a good deal of thought to the subject; the necessity for, and advantage of which, I never could satisfy myself of.

3. The Irrigation Company evidently consider it of importance in connection with their schemes, as their attention has been directed to it on former and late occasions. Of their views, however, I am ignorant, which is to be regretted as a knowledge thereof might possibly modify my present opinions.

4. Except in so far as a tidal branch canal in this locality would benefit the town of Madras, by conveying produce for consumption along its northern side, and so cheapen transport, I do not see any great advantages that would be derived from it. The Northern Canal is the highway for the transport of articles of local consumption, and not so far as I am aware, a feeder to the port, of produce for export.

5. To give an idea of what value the suppliers of articles of consumption place upon facilities for commanding the localities of consumption the new firewood depôt constructed in Chintadrepettah may be instanced. This depôt was constructed by Government at considerable expense for the storage of firewood in a central and thickly populated neighbourhood, and not a boat has ever discharged at the wharf, although every encouragement has been given by the Collector to those engaged in the traffic. This is not encouraging towards an expenditure of upwards of 2,30,000 Rupees in another direction, for a similar purpose, namely, to command Madras by a channel to the beach; at the same time it is no argument against facilitating economy in traffic.

6. As regards the export part of the question, in connection with the Irrigation Company, it seems natural, that if the successful completion of their schemes results in creating a new export trade, the produce would never be saddled with the expense of a navigation of a hundred miles or more in length running parallel to the sea, and only a mile or two from it, while the most favorable facilities existed, for at once shipping it at the points where traffic from the interior would strike the sea shore, at bars that are always open, at the very positions that would have to be reached to enter the canal. The law of commerce that brings the ship and its freight together at the least possible cost, would carry the vessel to the north, instead of the cargo to the south.

7. The Extract Minutes of Consultation No. 943, dated 18th May 1858, gives a brief history of the scheme of this branch canal, and contains Major Lawford's opinion that the project would prove an entire failure, and Captain Collyer's "anticipation of an injurious effect on the "water of the "Seven Wells" from the contiguity of a salt water canal, a contingency "for which, Major Lawford believes, nothing in the project can afford compensation."

8. Such a result is apparently under present conditions, the most serious objection that could be brought againt the project, and although Colonel A. Cotton's opinion is brought forward in opposition, I cannot see but that the objection is quite sufficient to prevent the execution of the project, so long as Madras is so dependent as at present upon the "Seven Wells" for its supply of fresh water.

9. Colonel A. Cotton says "an objection has, I understand, at some former time been made "to this canal along the north face of Black Town, viz., that it might injure the water of the "Seven Wells, but I feel satisfied that it will not have this effect. The canal will not be cut "deep enough to touch the strata, in which the good water is, and its bed will be covered with "a perfectly water-tight mud; but the proof is that the present Northern Canal, either crossing "the pure water strata, or running parallel with them, and close to them for miles does not the "least affect the well."

10. I do not agree with Colonel Cotton. If the Northern and Southern salt water canals do not damage the fresh water in the wells near them, it is owing to the surface of the fresh water throughout Madras lying in the stratum at a higher level than the surface of the canals, and so long as these relative positions are retained the salt water cannot mix with the fresh.

11. Colonel Cotton is speaking of a tidal canal and yet says that it will "not be cut deep "enough to touch the strata in which the good water is." I have not measured the depth below the surface of the ground of the water in the "Seven Wells," but I have taken the relative levels of wells and canals in various other places in Madras, and invariably found the former several feet above the latter. Having carefully watched for a number of years the effect of the salt channels upon the wells near to them, I have found that the well water is not damaged in quality, but its level is lowered, and this clearly proves that the tidal channels go through the stratum containing the salt water and to some extent drain it out.

12. If the source of supply of the Seven Wells is at some distance inland, and if the connection is by the stratum dipping under the canal, it might be that the proposed branch canal would not cut into its particular stratum; but judging from the data we have, I think there can be little doubt that the Seven Wells are supplied from the sandy ridge lying between Cochrane's Canal and the sea, and that to cut a channel through it at right angles to the beach would simply cut off the supply to the "Seven Wells," and damage a great many of the wells in Black Town.

13. I am strongly of opinion that no project for the further extension of salt water canals, within the limits of the High Court, should in future be entertained; and that should it ever be decided by Government, that it will be advisable and advantageous to carry out the project now referred to, it should be incorporated in the scheme now under consideration by Mr. Fraser for

supplying Madras with fresh water, and thus with the proposed Junction Canal connecting the Adyar and the Cooum, it would act as a feeder to permeate the whole water stratum beneath Madras, and permanently raise its level throughout the limits of the city by keeping the water surface in the channels slightly higher than the natural level of the water in the ground.

14. It will be for the Secretary to Government Department Public Works to decide whether this project should be shelved in the meantime, and struck from the list of unanswered references, or remitted to Mr. Fraser or some other authority for further consideration. If the supply of fresh water from the Red Hills is sufficient to keep up such a channel with its lockage and other wastage, there can be no doubt that it would be an invaluable blessing to Madras.

15. If you think this paper of any use as bearing on the subject offered for my report I beg you will forward it.

No. 142, 5th April 1855.
" 397, 6th March 1858.
" 335, 18th May "
" 2,326, 28th Sept. 1859.

Submitted to Government, with reference to the Orders noted in the margin, and with a request that permission may be granted for striking the subject off from the list of unanswered references.

(Signed) A. J. M. BOILEAU, Lieut.-Colonel, R. E.,
Superintending Engineer, 4th Division.

No. 174. ORDER THEREON, 9th January 1864, No. 83.

1. The project for cutting a Canal from Cochrane's Canal Basin to the Beach near Clive's Battery having been brought before Government by the late Board of Public Works on the 18th July 1853, in connection with the construction of a calingulah and lock at Shediancoopum to keep the water in the canal and the Cooum always nearly at high tide level, the Estimate was sanctioned by the Government of India on the 10th July 1854 and found a place in the Budget of 1855-56. On the 15th of March 1855, however, the Board of Public Works reported that the original Estimate was considered insufficient and the Government thereupon consented to the suspension of the work. It seems then to have been overlooked till on an application* from the Chief Engineer, nearly three years afterwards, to have the subject removed from his unanswered reference file, the Government under date the 6th March 1858, ordered that instead of being allowed to pass out of view, the project should be re-investigated by the then Superintendent of the Coast Canals and brought forward again. This caused the Chief Engineer to submit on the 13th of the same month a letter from the Superintending Engineer of the Central Circle, with its enclosures consisting of copies of correspondence between the late Board of Public Works and Captain Chambers, regarding the difficulties and expense, as well as the usetlessness of the proposed work. Supported by Colonel Lawford's unfavorable opinion and by Captain Chambers' enhanced Estimate of the cost of carrying out the work, Colonel Faber urged three grounds on which he recommended that it ought to be abandoned and the subject dropped. These were first, the expense, which instead of being as at first estimated, Rupees 35,704, was calculated by Captain Chambers at Rupees 2,32,040; secondly, the unimportance of the work, unless the main canal, of which it would be but a short branch, were used for bringing down exportable produce; and thirdly, the probability of the project proving an entire failure, as well as causing an injurious effect on the water of the Seven Wells.

5th April 1855, No. 142.

* 2nd February 1858, No. 7,106.

2. The Government reviewing these objections in its Order No. 942 of the 18th May 1858, saw no reason to agree with the Chief Engineer. It pointed out that the revised Estimate contained very large sums for works not before contemplated, among which were Rupees 1,15,255 for wharf walls, and Rupees 46,195 for removing the north wall of Black Town, and it resolved to refer the matter back to Colonel (now Sir Arthur,) Cotton.

3. No reply was received to that reference, nor to a subsequent Order of Government dated the 10th May 1854, No. 1,111, calling Sir A. Cotton's attention to the subject; but it appears from the allusion to the work in paragraph 16 of his Memorandum on the Northern Canal, bearing date the 30th March 1859, that his views as to the advisability of making the proposed branch from that canal to the beach along the northern face of Black Town remained unchanged.

4. The subject had, however, in the meantime been referred for the joint consideration of the District Engineer and Mr. Kennedy, and the latter Officer, who has since had the sole superintendence of the Coast Canals, having surveyed and estimated for the proposed branch, and given much thought to the subject of its formation without being able to satisfy himself of its necessity or advantages, now lays his matured views regarding it before the Superintending

Engineer of the 4th Division in the report forwarded with Colonel Boileau's Endorsement No. 3,665, under date the 30th November 1863, and recorded at the head of these Proceedings.

5. The conclusion at which Mr. Kennedy has arrived is that a branch canal from the Basin to the Beach could only be of use in the event of the main canals bringing down produce intended for export, which they will not do till their connection with the interior of the country is effected by the successful completion of the Madras Irrigation and Canal Company's undertaking, and probably not then, because any produce seeking a place of export by the Company's Canal will find it more easily at Kistnapatam than at the more remote, and comparatively inconvenient port of Madras. The Northern Canal, as now existing, is simply a highway for the transport of articles of local consumption, but not of produce for export. Mr. Kennedy, moreover, believes that no great benefit would be conferred on the town of Madras itself by the branch, as experience has shown that the suppliers of articles of consumption to the local markets do not appreciate facilities that may be offered them for the conveyance of their goods to the neighbourhood of their customers, and he thinks it by no means certain that to cut a canal to contain salt water, across the sandy ridge between Cochrane's Canal and the sea would not either cut off the supply of the Seven Wells, or damage the water in them and many of the wells of Black Town.

6. The Government is very reluctant to give up a project which, appearing to promise so well, has long engaged its attention; but it cannot but admit the validity of the objections which have been raised against the construction of the proposed branch canal on the ground of its not being likely to prove of any commercial importance at all commensurate with the large sum which it is now estimated to cost, and the Governor in Council accordingly resolves to allow the matter to be dropped till the result of the Madras Irrigation and Canal Company's operations has shown whether a connection between its main canal and the beach at Madras will be necessary.

7. The subject may be removed from the Superintending Engineer's unanswered reference file.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 175. Read the following letter from Lieutenant-Colonel C. V. WILKIESON, R. E., Controller and Auditor of Public Works Accounts, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 18th December 1863, No. 2,129 :—

SIR,

1. I have the honor to forward herewith an original letter* from the Superintending Engineer, 8th Division, relative to the adjustment of the outstanding balances of the Madura District, being one of those referred to in paragraph 5 of Proceedings of Madras Government, dated 16th July 1863, No. 1,918.

1 Letter, dated 24th November 1862, with 1 Enclosure.
1 Do. „ 18th „ 1863, 3 do.
1 Do. „ 9th December „ 16 do.
1 Do. „ from the Deputy Collector, dated 6th Oct. 1862.
* Dated 18th November 1863, No. 1,210.

2. The balances shown as irrecoverable in paragraph 18 of my letter of 20th June 1863, No. 857, were those given in an Abstract Statement which accompanied a letter from the District Engineer Madura, dated 24th November 1862, No. 1,043, and these amounted to Rupees 3,135-8-0 for the years from 1856-57 to 1859-60. The balances shown to be irrecoverable in the Superintending Engineer's letter now submitted are less in amount, viz., Rupees 2,516-10-8, as noted in the margin,† the difference having been subsequently adjusted. The Superintending Engineer adds to the sum of Rupees 2,516-10-8 the irrecoverable balance of the year 1860-61, viz., Rupees 585-4-8, making a total of Rupees 3,101-15-4 requiring the sanction of Government which with the balance of the year 1855-56, viz., Rupees 342-12-4, already sanctioned in paragraph 2 of the Order of Government under reference, makes a total of Rupees 3,444-11-8, deemed actually irrecoverable, out of the expenditure of the Madura District during the six years from 1855-56 to 1860-61.

	RS.	A.	P.
† 1856-57	213	8	3
1857-58	5	3	10
1858-59	1,240	4	11
1859-60	1,057	9	8
	2,516	10	8
Since adjusted...	618	13	4
Balance as shown in the Order of Government, dated 16th July 1863	3,135	8	0
Balance up to 1859-60	2,516	10	8
Do. do. in 1860-61	585	4	8
	3,101	15	4
Already sanctioned included in Rs. 462-12-4.	342	12	4
	3,444	11	8

3. The difference between Rupees 462-12-4 sanctioned in paragraph 2 of the Order of Government already alluded to on account of the year 1855-56 and Rupees 342-12-4 noticed above, is owing to a sum of Rupees 120 added in this Office to the unadjusted balance, representing an item for which a bill is stated to have been submitted, but cannot be traced. The Superintending Engineer did not include this item as he takes credit for all bills submitted.

4. The letters from the District Engineer of Madura, dated 24th November 1862, and that of the Superintending Engineer now submitted, give all the explanation which those Officers can now afford respecting the nature of the advances and the reasons why they are considered to be irrecoverable, and I request that under the circumstances stated, sanction may be accorded to the sum of Rupees 3,101-15-4 being written off as recommended by Captain Moberly.

5. That Officer particularly desires it to be brought to the notice of Government (in paragraphs 5 and 6 of his letter) that he has allowed the Contractors, by whom balances are still due, to have the benefit of the prices now ruling, as the only means of effecting a recovery from them of the portion of the balances he considers to be recoverable, these are shown in the Abstract he forwarded. This recommendation is submitted for the consideration of Government. The Superintending Engineer in a letter dated 9th instant, No. 1,465, submits through this Office instead of direct to Government drafts of several plaints of suits which he proposes to institute, because he failed to have the whole of the irrecoverable balances worked out. It appears from his letter that Rupees 1,222-6-2 have been recovered by him by the means adopted, and that Rupees 17-8-9 will have to be added to the irrecoverable balances, but he does not state to what year's account the last item relates. The draft of each plaint is accompanied with the deeds of contract and security obtained on stamp paper, and it is for the Government to decide whether the suits proposed to be instituted can be commenced.

No. 176. ORDER THEREON, 11th January 1864, No. 84.

1. In Proceedings dated 16th July 1863, No. 1,918, the Controller and Auditor of Public Works Accounts was requested to obtain and submit explanations connected with certain advances, amounting in the aggregate to Rupees 4,624-4-2, which were represented to be irrecoverable. Colonel Wilkinson now reports with reference to Rupees 3,135-8-0 of that sum, outstanding in the Madura District and relating to the transactions of the years 1856-57 to 1859-60.

2. Since the date of the Orders of Government above quoted it appears that the balance of Rupees 3,135-8-0 has been reduced to Rupees 2,516-10-8, by an adjustment of Rupees 618-13-4, but adding Rupees 585-4-8 the balance appertaining to 1860-61, the total of irrecoverable advances is Rupees 3,101-15-4. From the explanations submitted, it is observed that no documents are forthcoming to show the parties by whom these advances were made. Captain Moberly, however, enters the names of the Officers who had charge of the Ranges in which the works for which the advances were made, are situated. These are Major Marshall and Captain Scott, who are dead, Supervisor Vencataramaiah and Mr. Oakes, who have left the Department, and Mr. Dudgeon, who is now on leave in England. As it appears from a consideration of the circumstances brought to notice that there is no probability of any of the advances being recovered or worked out, the Government has no alternative but to sanction the sum of Rupees 3,101-15-4 to be written off to "profit and loss."

3. Captain Moberly also reports about a sum of Rupees 3,568-3-10, for the recovery of the greater portion of which it will be necessary to institute legal proceedings. He explains that the delay in the adjustment of this sum is to be ascribed to the practice which obtained at the time when works had to be stopped, of neglecting to see that the amount of the outstanding advances was at once worked out, and of allowing the money to remain in the hands of the Contractors until the resumption of the works. To prevent losses which may possibly result from such an arrangement, Captain Moberly induced some of the Contractors to perform work to the extent of the advances made to them, giving them, however, the benefit of the prices now prevailing in the District. By this means he has been able to effect an adjustment of Rupees 1,222-6-2, leaving a balance of Rupees 2,345-13-8, for the recovery of the greater portion of which he submits sixteen drafts of plaints, and requests the necessary authority to file them. These draft plaints will be forwarded to the Government Pleader, who will be good enough to report whether there is sufficient reason for believing that the prosecution will prove successful.

RS.	A.	P.
3,568	3	10
1,222	6	2
2,345	13	8

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 177. Read the following letter from Lieutenant-Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 22nd December 1863, No. 4,177 :—

SIR,

1. With reference to the Proceedings of Government No. 1,722, dated 30th June 1863, I have the honor to submit for sanction, Plan and Estimate amounting to Rupees 1,250, for constructing two rooms for the confinement of short sentenced prisoners, in the Talook Cutcherry at Chittoor, in the North Arcot District.

1 Plan.
1 Estimate (Abstract).

2. The Plan has been prepared in communication with the late Acting Collector Mr. Fraser, and I beg to recommend that the Estimate may be entered in the Budget of 1864-65, provision having been made for the work in my lists submitted on the 31st October 1863.

3. Estimates for the other similar rooms adverted to in the Proceedings of Government above quoted, will be submitted as soon as possible.

Referred to the Judicial Department with reference to the Order in that Department No. 964, dated 19th June 1863.

Chepauk,
24*th December* 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government, P.W.D.

Approved.

Fort Saint George,
Judicial Department,
26*th December* 1863.

(Signed) A. J. ARBUTHNOT,
Chief Secretary.

No. 178. ORDER THEREON, 11th January 1864, No. 85.

Communicated to the Superintending Engineer, 4th Division, for information and guidance.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 179. Read the following letter from Lieutenant-Colonel H. W. HITCHINS, R. E., Superintending Engineer, 5th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Salem, 29th December 1863, No. 1,702 :—

SIR,

1. I have the honor to bring to the notice of Government that the Controller declines to pass Contingent Bills for my Office if in excess of the amount fixed by Government as the monthly rate, although I have pointed out to him, that up to the 30th ultimo there had been a saving in my Division of upwards of 300 Rupees, arising from the small expenditure in the earlier months of the year while the Department was in a transition state, and which no doubt has been the cause of my requiring a little more than the prescribed monthly allowance as the year advanced.

2. If permission is granted to me to draw what is yet due to the 5th Division I shall be able to cover the cost of office furniture without troubling Government for a special grant, and I trust that the reason assigned by me for not having drawn the available amount during the first few months of the year will be considered satisfactory.

3. I beg also that the Government will be pleased to sanction a somewhat larger amount on account of the Travelling Batta of my Establishment for the remainder of the year than the prescribed monthly rate, as there is a large saving on that account also in my Division.

No. 180. ORDER THEREON, 11th January 1864, No. 86.

The Controller is authorized to pass the Contingent and Travelling Batta Bills submitted by the Superintending Engineers provided the aggregate amounts entered in the Budget under those heads are not exceeded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 181. Read the following Memorandum from the Quarter Master General, dated Fort Saint George, 23rd December 1863, No. 10,061 :—

From Major General A. SPENCER, Commanding Mysore Division, to the Quarter Master General, dated Bangalore, 17th December 1863, No. 270.

SIR,

I have the honor to report for the information of His Excellency the Commander-in-Chief that the Executive Engineer states* that he has no funds available for repairs to Military buildings at this station.

* Vide letter attached No. 68 of 15th December.

From Captain J. GODDARD, R. E., Executive Engineer, Bangalore, to Captain BERESFORD, Deputy Assistant Quarter Master General, Mysore Division, dated Bangalore, 15th December 1863, No. 68.

SIR,

1. In reference to documents marginally indicated, I have the honor to report that no funds have yet been allotted by Government for repairs.

Your requisitions Nos. 262 and 268, dated 2nd and 12th December 1863.

2. The first named work has been executed by a Contractor at his own risk.

3. I beg you will inform the Major General Commanding the Division that the requisite application for funds has been made.

Forwarded to Government Department Public Works for consideration and orders.

(By Order.)

(Signed) F. H. SCOTT, Lieut.-Colonel,
Quarter Master General.

No. 182. ORDER THEREON, 11th January 1864, No. 87.

1. The Quarter Master General will be informed that in the Orders marginally noted Rupees 2,000 were authorized to be transferred from the current year's allotment for the Salem District to the credit of the Executive Engineer, Bangalore, to meet the cost of repair required to the Military buildings at that station.

No. 3,736, dated 17th December 1863.

2. In paragraph 3 of his letter, No. 1,555, dated 12th December 1863, the Superintending Engineer, 5th Division, reported that as the year advances, he would be better able to say "from what other sources savings can be effected to meet the demands of Bangalore."

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 183. Read the following Memorandum from the Controller and Auditor of Public Works Accounts, dated Madras, 23rd December 1863, No. 2,154 :—

Remarks on Lieutenant-Colonel Walker's Note on Government Order No. 3,641, *dated* 10*th December* 1863.

1. The Government Order above quoted refers to an Estimate of Rupees 24,800, for the improvement of the road from the Coimbatore Railway Station to the foot of the Coonoor Ghát,

and directs that Rupees 8,670 thereof be exhibited in the accounts as "Repairs," and the balance Rupees 16,130, as "Original Works;" out of this balance only Rupees 8,000 have been given from *Imperial* Budget allotment for "Original Works," as yet, and Rupees 6,210 have been provided in G. O. No. 3,710, dated 16th December 1863, from the *Local Funds* of the District, so that the arrangement up to this time stands thus:—

	RS.
From Imperial Fund.	
To be exhibited under "Original Works"	8,000
Do. "Repair"	8,670
From Local Fund.	
To be exhibited under "Repairs"	6,210
Funds provided for ...	22,880
Balance for which no provision of funds has been made as yet	1,920
Total...	24,800

2. But in Colonel Walker's Note Rupees 7,460 are put down, as to be drawn from toll collections, which differs from the amount given in G. O. No. 3,710, of the 16th December 1863, viz., available up to the 30th November 1863 ... ... Rupees 2,595
amount estimated to be available from December 1863, to April 1864 ... „ 3,615
Total „ 6,210

3. The undersigned is also in doubts as to whether the *expenditure from the Local Fund* is to be exhibited as "Original Works" or "Repairs," for while G. O. of the 10th December 1863, No. 3,641, directs that the difference, Rupees 16,130, between the maintenance allowance and the *entire Estimate* should be shown under "*Original Works*," the work on which *Local Funds* are to be expended is spoken of in Government Orders Nos. 3,503 and 3,710, dated 30th November and 16th December 1863, respectively as a "*Repair*."

(True Copy.)

(Signed) C. V. WILKIESON, Lieut.-Colonel, R. E.,
Controller and Auditor of P. W. Accounts.

Copy to the Secretary to Government Public Works Department, with the true copy of Lieutenant-Colonel Walker's note dated 17th December 1863.

No. 184. ORDER THEREON, 11th January 1864, No. 88.

Road from the Coimbatore Railway Station to the foot of the Coonoor Ghát.

1. As already decided the entire Estimate with the exception of Rupees 8,670, the maintenance allowance for the road marginally noted, should be shown in the accounts of the Superintending Engineer, 7th Division, under the head "Original Works."

2. The Government will await the receipt of Lieutenant-Colonel Walker's explanation regarding the difference referred to in paragraph 2 of the foregoing Memorandum.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Ordered that the following letter be despatched.

No. 185. From Colonel C. A. ORR, R. E., Secretary to the Government of Fort Saint George, Public Works Department, to the Secretary to the Government of India, P. W. D., dated 11th January 1864, No. 89.

SIR,

With reference to paragraphs 1 and 2 of your letter No. 4,814, dated 14th November 1863, and in continuation of mine, No. 3,688, dated 14th ultimo, I am directed by the Honorable the Governor in Council to state that the Government of India has been misled as to the disposal

of the sale proceeds of the materials of the old wall of the Fort of Masulipatam, as well as of its site, including the ditch, by the erroneous wording of the abstract given in entry No. 196, of the printed Proceedings of this Department for August 1863, the order in the Revenue Department, of which that abstract professed to give the substance, having clearly directed that the sale proceeds in question should be paid into the Treasury for investment in Government securities exactly as the sale proceeds of waste lands are invested, and that any expenditure required for roads should be provided in the usual course in the Public Works Department. The necessary corrections have now been made in the abstract.

No. 186. Read the following letter from Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Coonoor, 29th December 1863, No. 277:—

SIR,

1. I have the honor to report that in compliance with Government Order No. 3,798 of 22nd December, I have issued instructions to the Sub-Engineer in charge of Pullachy Range to notify to Mr. Shannon his reinstatement in the position he held in the Department Public Works when suspended. Such suspension having dated from the 28th June, the position in question is that of Sub-Overseer, which being a rank not recognized under the re-organization, I must request your orders regarding the actual rank he is to hold.

2. Mr. Shannon has paid up to the Assistant Executive Engineer in charge of Coimbatore Range the value of the tools that have not been recovered; I have nothing further therefore to charge him with on that score, and as to framing specific charges against him in support of the general charge of intemperate habits, attributed to him by Dr. Ogg and Major Farewell, it is not likely that explicit enough evidence will be available. The man has been malingering to get sick leave to Madras, and probably to spin out his time for a pension; and except under strict supervision in a Hospital, could easily conceal the effects of drink under the guise of suffering and exhaustion. Dr. Ogg having reported that a change to the Neilgherries will be rather beneficial than otherwise, and Major Farewell being the Senior Military Officer in my Division, I have ordered Mr. Shannon to join the Neilgherry Range; where he will have the opportunity of regaining his character, or will not be allowed again to commit himself without effectual steps being taken.

3. I am sorry that I should have erred in the management of this business from ignorance of orders, issued when I was absent from India, and not embodied in the Public Works Code. I dismissed Mr. Shannon in utter hopelessness of doing anything with him, and as I issued the order before he was promoted to be a Sub-Conductor I am not quite convinced of my want of authority to do so, and I am very sure that it was wrong to promote him while under suspension, and without ever consulting me.

No. 187. ORDER THEREON, 11th January 1864, No. 90.

1. The Superintending Engineer, 7th Division, will be informed that Mr. Shannon's rank in the Department Public Works is that of Táluq* Overseer.

* Vide printed list forwarded with G. O. No. 1,599, dated 18th June 1863.

2. The Government approves of the arrangement reported in the latter clause of paragraph 2.

3. It is observed that Mr. Shannon was promoted to the rank of Sub-Conductor on the 1st September 1858 and to that of Acting Conductor on the 5th July last.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 188.

Read the following:—

GODAVERY DISTRICT.

Monthly Report on the Progress made in constructing the Central Jail at Rajahmundry in the month of November 1863.

	RS.	A.	P.
Expenditure including advances in this month	839	10	0
Do. up to this month including advances for doors, &c. ...	7,839	14	0

Work performed.

180¾ Cubic yards of lime and 30 cubic yards of rough stone have been quarried. Bushes, &c., cleared for a space of 13,907 square yards. Carpenters, work for 58 doors finished and iron works for 13 in progress.

Superintending Engineer's Office, 1st *Division,*
Waltair, 9*th December* 1863.

(Signed) O. W. S. CHAMBERS, Captain, R. E.,
Superintending Engineer, 1st *Division.*

No. 189.

ORDER THEREON, 11th January 1864, No. 91.

From the foregoing Report, the Government observe that the total outlay, including advances, on the Central Jail at Rajahmundry up to the 30th November 1863 amounted only to Rupees 7,839-14-0, while the current year's allotment for the building is Rupees 50,000. The Government trust that the Superintending Engineer will make such arrangements as may be necessary to ensure the prosecution of the work with vigour more commensurate with the importance of the structure.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 190. Read the following letter from Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Cutcharayenputty, 19th December 1863, No. 1,549 :—

SIR,

In continuation of my letter No. 1,507, dated the 15th instant, and with reference to paragraph 2, Government Order No. 124, dated 25th November last, I have the honor to report that the details of the Establishment for the Workshop sanctioned in Government Order No. 1,646, dated 23rd June 1863, are as follow :—

	RS.
1 Tindall	9
3 Lascars at 7 Rupees each	21
2 Do. at 6 ,, do.	12
1 Smith	12
1 Carpenter	12
1 Hammerman	9
1 Bellows Boy	4
Total...	79

No. 191.

ORDER THEREON, 11th January 1864, No. 92.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 192. Read the following letter from Lieutenant-Colonel E. HEMERY, R. E., Superintending Engineer, 3rd Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Cuddapah, 21st December 1863, No. 238 :—

SIR,

1. I have the honor herewith to forward a comparative Statement showing that the sum of Rupees 2,300 is still required to complete the bridge over the Kunderu at Nundial, in the Kurnool District, in addition to the aggregate amount of Rupees 30,563-7-10 sanctioned by Government at different times namely :—

Comparative Statement.

	RS.	A.	P.
On the 24th February 1855, Order No. 91, ...	13,263	7	10
,, 12th December 1860, ,, ,, 2,563, ...	9,000	0	0
,, 6th March 1862, ,, ,, 361, ...	5,500	0	0
,, 11th August 1862, ,, ,, 1,899, ...	2,800	0	0
Total ...	30,563	7	10

2. The necessity for this fourth supplemental Estimate is caused by the enormous rise in the rates of labour and material at Nundial, owing to the operations of the Irrigation Company in the immediate vicinity. I have lately been compelled to allow Mr. Plummer, the Supervisor in charge of the Range, to raise the rates of ordinary labour 50 per cent., but even now it is extremely difficult to collect enough coolies to carry on the work.

3. The Irrigation Company are advertising in every direction for labour, and this bridge, originally estimated in 1854 at Rupees 13,263, will cost about Rupees 33,000, and could not now be built for half a lac of Rupees.

4. This great demand for labour in a thinly populated country has made all the coolies and skilled labourers so independent that if we attempt to task them, or if we say one harsh word to them, they immediately leave us for the Irrigation Company.

5. Whilst regretting being obliged to apply for the additional sum of Rupees 2,300 to complete the bridge, I have much pleasure in mentioning that it is a very fine and a remarkably cheap work; it is built of hammer-dressed stone with the exception of 13 of the piers, the portions of which between the cut-waters are of brick, the arches are of cut stone, very neatly turned, and the work altogether is very creditable to Mr. Paynter and to Mr. Táluq Overseer Taylor.

6. The parapet walls are now in progress, and as it would be impossible again to collect our masons and coolies if we were to dismiss them pending a reference to Government for additional funds, I have authorized Mr. Plummer to push on the work as fast as possible, trusting to a sanction of Rupees 2,300 being granted from the Reserve Fund of the current official year to enable him to complete the bridge.

No. 193 ORDER THEREON, 11th January 1864, No. 93.

The Governor in Council accepts the explanation furnished in this letter, and grants authority for the further sum of Rupees 2,300 required to complete the Kunderu bridge in the Kurnool District being provided from the Reserve Fund of the current year.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 194. Read the following letter from Lieutenant-Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 26th December 1863, No. 4,289 :—

SIR,

1. With reference to the Proceedings of Government No. 3,239, dated 6th November 1863, I have the honor to submit for orders a Bill of the charges incurred in removing the stores, machinery, &c., of the late District Engineer's Office, North Arcot, from Raneepet to the Presidency.

1 Bill, with three vouchers attached.

2. The removal was superintended by my Office Storekeeper, and I request that sanction may be given for the payment of the amount of his Bill Rupees 408-2-3 from the sum Rupees 1,80,000 allowed in the current year's Budget for "Stores," &c.

3. The machinery and tools have been deposited in the Abercrombie Battery, and the books and other records of the Office of the late District Engineer in my own Office.

No. 195. ORDER THEREON, 11th January 1864, No. 94.

The Government sanctions the payment of the Bill* submitted with this letter from the sum of Rupees 22,000, which has been set apart in the current year's Budget on account of India freight, landing, &c., charges.

* Rupees 408-2-3.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 196. Read the following Proceedings of the Governor General of India in Council, Public Works Department dated Fort William, 8th December 1863, Circular No. 62;—

Disposal of arrear accounts of the Public Works Department.

Read the following paper :—

No. 1, dated 23rd November 1863.

From the Commission on Public Works Accounts, to Officiating Secretary to Government of India, Public Works Department.

1. In the course of our enquiry into the Public Works Accounts, so far as it has gone, we have ascertained that considerable outstanding balances exist in the Controller's books which have to be adjusted, over and above the ordinary outstanding accounts of disbursing Officers which are under audit and adjustment in the course of current procedure; and without committing ourselves to any opinion as to whether it is desirable to introduce any changes into the present system of account, we desire to submit that it would greatly tend to facilitate such a measure, should it eventually be determined on, if these outstanding balances were cleared of to the greatest possible extent during the present official year.

2. These balances consist of two kinds; 1st, the balances standing in the Suspense Account, which consist of expenditure passed to the credit of the disbursers, but which have to be cleared by bills for completed works; 2ndly, the balances standing against the disbursing Officers, which consist of cash, advances, retrenchments, and corrections.

3. We are unable at present to state the amount of these balances on the Suspense Account for all India, but the Inspector General at our request has called for the information from his Office; but we may mention that in Bengal they amount to 80¾ lakhs, and although, as we are informed, these balances are exceptionally high, still they appear to be very considerable everywhere.

4. It appears that, under existing procedure,* the expenditure of the year on completed works, repairs, and establishments is taken credit for in the account current of the year, so that the accumulation of these arrears is prevented for the future; the present balanses arise from the expenditure of previous years, when a more detailed mode of clearing the accounts was in force which, under late orders of the Government of India in the Financial Department, has been re-placed by the simpler arrangement noted above.

* See Inspector General's Circular No. 20 of 1863.

5. The delay in disposing of these arrears appears to consist, 1st, in the difficulty of obtaining the vouchers required to complete the accounts in the form prescribed for audit, viz., a properly certified statement of the actual measurements of each completed work; 2ndly, in the fact that many of the works in question have exceeded the sanctioned estimates for them; and that

in all such cases the Controller is obliged to submit the case to Government for orders before passing the charge, with a detailed explanation of the causes of such excess.

6. It has been explained to us that extreme difficulty often arises in obtaining a proper completion report (return of measurements) in the case of works completed in past years, by reason of the changes which have occurred in the Executive Staff of the Department, and, as there appears to be no sort of question as to the work exhibited in the accounts having been actually executed (since it was carefully audited and certified to before being passed to the credit disbursers), we are of opinion that no useful purpose will be served by withholding the adjustment of the accounts for the sake of mere formal documents which are made no real use of; while, as regards the works which have exceeded the estimates in cost, and the bills for which require the detailed sanction of Government, as there can be no doubt that these bills must be passed eventually, it seems very undesirable to burden the Public Works Books with these balances for an indefinite time. The facts regarding any case of excess can be brought before the notice of Government by a special report quite as clearly as by a bill, and nothing appears to be gained by keeping the items on the Public Works Books while the matter is under consideration.

7. We therefore recommend that the whole of the balances for completed works at the debit of the Public Works Suspense Account be written off in the accounts for 1863-64, in the form of Bill lately sanctioned for the accounts of 1862-63, which will bring every case of excess clearly to notice.

8. If this be done, the balance at the debit of the Public Works Suspense Account will then consist only of the expenditure in works not completed, and of the value of the stores on hand, and payments on account to contractors for value received.

9. We have next to consider the balance standing against the Engineer or Disbursing Department. This consists of:—

1st.—Retrenchments, including clerical errors.
2nd.—Unsecured advances.
3rd.—Cash.

10. It appears that the practice of retrenching has been abolished in all but very extreme cases since 1861,† so that the existing outstanding retrenchments almost all belong to an earlier period. It appears certain that the great mass of these would not have been made under the existing procedure, while it is equally certain that the difficulty of obtaining satisfactory explanations in regard to them has been rendered very great, if not insuperable, by the length of time that has gone by since they were made. We therefore recommend that all such outstanding retrenchments be dealt with as such cases are now dealt with, and that all charges retrenched against disbursing Officers, which appear to the Auditors to have been *bonâ fide* expended, be now written off to their credit. A list of the items might be furnished to Government for information.

† P. W. D. Circular 102 of 1861.

11. We further recommend that retrenchments made for clerical errors be dealt with in a similar way. The amount outstanding on this account is but small, and it appears unnecessary to adjust such corrections when any length of time has elapsed, and when the amount involved is too trifling to be of importance.

12. Unsecured advances, by which we mean advances made without security, or which have not been worked off, must needs remain at the debit of the disbusrsing Officer.

Resolution—The Governor General in Council considers that the Commissioners have fully established a case for the measure which they propose, viz., to clear off the arrear balances now standing at the debit of the Public Works Suspense Account, for expenditure on works which has been passed to the credit of disbursers, but has not yet been written off against Government, and the balance outstanding on account of former and present disbursing Officers. The balances have been accumulated under a system of audit no longer in force; and it being

understood that the occurrence of such a state of arrears, or of any arrears, is impossible, if the rules now in force are properly acted upon, His Excellency in Council considers it desirable to relieve the Public Works Accounts Offices of the burden which is caused by the maintenance of these long-standing balances on the books, and is pleased to order that they shall be disposed of in the accounts of the current year in the manner proposed.

2. But although it is desirable to clear off these balances from the Public Works Books, it is still quite necessary that the items of which they are composed should be properly scrutinized. As regards the balances of the Suspense Account, the items will be cleared by a Bill of the new form (sanctioned in Public Works Department Proceedings No. 1,267, G. G. of 6th July 1863), showing the excess of the cost of every work above the estimate or sanction, which excess is the cause of the item being still on the books. It will be the duty of Local Governments and Administrations to call for explanations on such points as appear necessary, Go- while a list of the items, which, under ordinary circumstances, would require the sanction of the vernment of India, before being passed, is to be submitted to the Government of India with such information as appears necessary to explain the case, or as can be obtained.

3. As regards the balances at the debit of the Engineer or Disbursing Department, all *bonâ fide* expenditure is now to be written off; a clear statement of the items being submitted to the Government of India through Local Governments and Administrations. Doubtful cases, especially those in which there is any suspicion of malversation on the part of any subordinate person, should be submitted for the orders of the Government of India.

4. The Governor General in Council is further of opinion that all the outstanding accounts of the old system against Public Works Officers in the Books of the Accountant General and Deputy Accountants General should be at once cleared off. The nature of these outstanding accounts is explained in the accompanying Note by the Inspector General of Public Works Accounts; they are generally of much older date than the balances on the Public Works Books, and no useful result can arise from retaining them on the records.

Ordered, that a copy of the above Resolution be forwarded to Local Governments and Administrations for information and guidance, and for the early submission of the returns called for in paragraphs 2 and 3.

Also to the Inspector General of Accounts, for the submission of a draft Circular to the Public Works Controllers containing the necessary detailed instructions for giving effect to the above orders.

Also to Deputy Auditors General as authority for the final audit of the bills referred to in paragraph 3 in the annual accounts of 1863-64.

Also to the Financial Department for the issue of the necessary orders in regard to the outstanding balances under the old system, referred to in paragraph 4.

(Signed) J. P. BEADLE, Lieut.-Colonel, R. E.,
Offg. Secy. to the Govt. of India.

Copy forwarded for information to the Government of Madras.

(Signed) J. P. BEADLE, Lieut.-Colonel, R. E.,
Offg. Secy. to the Govt. of India.

No. 197. ORDER THEREON, 11th January 1864, No. 95.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 198. Read the following letter from Lieutenant-Colonel C. V. WILKIESON, R. E., Controller and Auditor of Public Works Accounts, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 23rd December 1863, No. 2,144 :—

SIR,

17 Bills (out of 70 Bills).
1 Letter, dated 23rd September 1863, No. 102.
1 Do. 27th November 1863, No. 1,323.

1. I have the honor with reference to Chapter IV, paragraph 13 of the New Code, to submit for the consideration and orders of Government, the enclosed Bills for works executed in the District of Madura and to state that they were returned to the Superintending Engineer, 8th Division, for the completion Certificate and the entry of the date of last inspection as required by Chapter XX, paragraph 22 of that Code, but were re-transmitted with an original letter from Captain Payne (herewith submitted), explaining that as none of the works were measured by himself he is unable to give the Certificate called for.

2. The Superintending Engineer was thereupon requested to furnish information of the names of the Officers under whom these works were carried out, and his reply thereto is herewith enclosed.

No. 199. ORDER THEREON, 11th January 1864, No. 96.

1. The Controller is authorized to pass the Bills submitted with the foregoing letter.

2. In separate Proceedings it has been intimated to the Superintending Engineers that with a view to the Certificates ordered to be submitted with Bills for completed works being invariably furnished to the Controller and Auditor of Public Works Accounts, the Government will look to the Range Officers to inspect as soon as possible after completion every work executed within their respective charges.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 200. Read the following letter from Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Meyloor, 18th December 1863, No. 1,538 :—

SIR,

1. Referring to your No. 3,678 of the 12th instant, I have the honor to observe that I have already submitted Estimates for as much money as there is any prospect of the Government allotting or the labour of the District expending.

2. One is for completing the main Salt line to Tondy. I beg that I may be allowed to defer the making of further Estimates till there is some prospect of funds, no Estimate of this year can be suitable next year, the subject shall not be lost sight of.

No. 201. ORDER THEREON, 11th January 1864, No. 97.

No. 3,678, dated 12th December 1863.

The attention of the Superintending Engineer of the 8th Division is called to the Order noted in the margin, and he will prepare and submit Estimates for all such Salt roads as in his own or the Collector of Madura's opinion may be required, leaving the question of applying funds for the disposal of Government.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 202. Read the following letter from Lieutenant-Colonel F. H. SCOTT, Quarter Master General, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Fort Saint George, 28th December 1863, No. 10,160 :—

SIR,

In continuation of this Office letter No. $\frac{201}{7027}$ dated 2nd September last, I have the honor by order of His Excellency the Commander-in-Chief to forward for submission to Government a supplementary list of original works for inclusion in the Budget of 1864-65, or for execution from the Reserve. Plans and Estimates are promised after the holidays, from Trichinopoly.

Supplementary list of original works to be included in the Budget of 1864-65, *or for execution from the Reserve.*

Division.	Station.	Regiment or Department.	Description of works.	Probable cost.	Remarks.
Southern Division.	Trichinopoly ...	13th Regiment, N. I.	2 Public Privies for the use of the males and females of the Regiment at 500 Rupees each	RS. 1,000	
		15th do.	2 do. do.	1,000	
		23rd do.	2 do. do.	1,000	
		1 Wing of a European Regiment.	2 do. for the Native followers of the Wing at 500 Rupees	1,000	
		1 Battery of Artillery.	2 do. for the Native followers of the Battery at 500 Rupees	1,000	

Quarter Master General's Office,
Fort Saint George,
28th December 1863.

(Signed) F. H. SCOTT,
Quarter Master General.

No. 203. ORDER THEREON, 11th January 1864, No. 98.

Communicated to the Superintending Engineer, 6th Division, with a request that Estimates may be submitted for the works referred to by the Quarter Master General for sanction from the Reserve Fund of 1864-65.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 204. Read the following letter from Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Coonoor, 31st December 1863, No. 280 :—

SIR,

1. In Government Order No. 3,319 of 14th November, paragraph 1, repeated in your Memorandum No. 103 of 22nd December, is made a requisition with which I am utterly unable to comply, and for which on further consideration I trust you will see that there was no real necessity. The entry sanctioned by Government in the Budget list of 1864-65, was of a sum greatly below my Estimate of what should be the permanent annual allotment for the roads of the 7th Division, when the principle for which I contended should have been fully admitted. It was in fact cut down to an amount not greatly differing from the previous grants, so as to cause no difficulty about its substitution for the latter. But no such detailed information regarding the actual mileage under repair each year having been called for regarding the roads under the former sanctions, none need be asked for, I humbly represent, as to those in the new lists, and to give them accurately I must frankly state to be an impossibility, without devotion to the task of much more time than I can afford.

2. In contradistinction to the view taken in paragraph 2 of the Government Order, I consider so called maintenance grants as requisite for every portion of the entire mileage of our lines, whether completed, "incomplete," or "unformed." They are wanted for "maintenance" of the first "improvement and gradual completion" of the second, and "survey and trace" of the third. That the sums now allotted are inadequate, is granted; more is not at present asked for because not hoped for; the object has been to get the principle recognized of permanent annual sanctions for all roads made or immediately proposed. The Collectors of the 7th Division, and myself and Range Officers, would rather have a moderate fixed sum at our disposal annually, on which we could depend to do something, however slight, for each communication, than be condemned to depend entirely upon the sanction of Estimates which may be deferred from year to year for want of funds.

3. Such Estimates will however continue to be sent in as desired in paragraph 3 of the Government Order; and it will be seen on reference to paragraph 7 of my letter under review, that my Estimate of their probable annual aggregate (Rupees 1,37,280), differs little from the Government Estimate of 1½ lakhs. My calculation was made upon the mileage, and my further object is to get that sum assured to the Division as what its three Districts may look to with certainty from year to year, as the minimum allotment for new road works (exclusive of large bridges). (The last sentence of the postscript in my former letter is thus modified to agree with the Memorandum in paragraphs 2 and 3 of the Government Order).

4. In reply to paragraph 4 of the Government Order I say, give us the full allotment laid down in paragraph 5 of my letter, and it need never be increased, except by addition to the number of roads. For as each portion of a line passes from the state of "unmade" through that of "incomplete" to "completion" its (so called) maintenance allotment is gradually diverted from the work of "surveying and tracing" to that of "formation" ending in real "maintenance" at last. Of course modifications may hereafter be required in the classification; and District roads may become Imperial roads in course of time, as the country and its resources are developed; but I believe the mileage rates I have named, from Rupees 275 to Rupees 165 per mile, or 2½ Annas to 1½ Annas per running yard, for Imperial lines, and from Rupees 165 to 55, or 1½ Annas to half Anna per running yard, for District lines, will adequately provide for maintenance of every kind of road. Rupees 2,86,990, you will observe is my Estimate of the aggregate required for "communications" "repairs" by the time all expenditure on "new" ceases, on the lines included in my lists.

5. I have to explain the apparent discrepancy alluded to in paragraph 5 of the Government Order, thus, viz., Rupees 2,02,620, is the future allotment proposed of funds to be raised by a percentage on Revenue collections (*vide* Government Circular No. 97 of 11th April 1862). Rupees 1,21,770 is the allotment to be made of existing Local Funds, supplemented from Income Tax Funds if needful.

6. Mr. Grant tells me I am wrong in supposing, as stated in my 9th paragraph, that the Europeans in the Neilgherry and Wainád Táluqs are the main contributors to Income Tax Funds; and I infer therefrom that he considers my proposal to transfer the Hill roadsanction of Rupees 1,500 from Imperial to Income Tax Funds as wrong in principle. I mention this to allow of the correction being made, if thought fit.

No. 205. ORDER THEREON, 11th January 1864, No. 99.

The Superintending Engineer seems to have misapprehended the previous Order of Government. What is required from him is the information necessary to enable this Government, to enter in the Budget the details called for by the Government of India. The simple entry of the total number of miles of road in each District which require a maintenance grant is not sufficient. Each road must be entered separately with its length in miles, and the sum proposed to be spent on its maintenance. The total will of course correspond with the sum already sanctioned by Government.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 206. Read the following Office Memorandum from the Under Secretary to the Government of India, Public Works Department, to the Secretary to the Government of Fort Saint George, dated Fort William, 18th December 1863, No. 5,282 :—

In continuation of Public Works Department No. 4,856 of the 17th ultimo, the undersigned has the honor to forward to the Secretary to the Government of Fort Saint George, for his information, the annexed List of Officers of the Public Works Department who draw Presidency house rent.

(Signed) E. C. S. WILLIAMS, Captain, R. E.,
Under Secretary to the Government of India.

List of appointments in the Public Works Department, the incumbents of which draw Presidency house rent.

NATURE OF APPOINTMENT.

Secretary to the Government of India, Public Works Department.

Under Secretary to the Government of India, Public Works Department, at the Presidency.

Inspector General of Public Works Accounts and Ex-officio Under Secretary to the Government of India, Public Works Department.

Assistant to the Inspector General of Public Works Accounts.

Consulting Engineer and Joint Secretary, Government of Bengal Railway Department.

Deputy Consulting Engineer and Assistant Secretary, Government of Bengal Railway Department.

Superintending Engineer, 1st Circle.
Do. do. 2nd or South Eastern Circle.
Controller and Examiner of Public Works Accounts at the Presidency.
Executive Engineer, Presidency Circle.
Additional Executive Engineer, Presidency Circle.
Executive Engineer, Circular and Eastern Canals.
Assistant to Chief Engineer and Secretary to the Government of Bengal.
Superintendent, Suburban Roads.
Assistant Engineer, Presidency Circle.
Probationary Assistant Engineer, Presidency Circle.
Accountants, 1st, 2nd and 3rd Class.
Assistant Accountants 1st, 2nd and 3rd Class.

Rate of Presidency house rent in lieu of tentage of rank.

Military Officers (not drawing Consolidated Salaries.)

	RS.	
Colonel ...	180	per mensem.
Lieutenant-Colonel ...	180	do.
Major ...	180	do.
Captain ...	135	do.
Lieutenant ...	90	do.
Civil Officers according to their Departmental rank.		
Superintending Engineers ...	60	do.
Executive Engineers ...	45	do.
Assistant Engineers 1st Class ...	30	do.
Assistant Engineers 2nd Class; Probationary Assistant Engineers and Sub-Engineers	20	do.
Upper Subordinates of other Classes ...	10	do.
Accountants, 1st, 2nd and 3rd Class ...	20	do.
Assistant Accountants, 1st, 2nd and 3rd Class ...	10	do.

No. 207. ORDER THEREON, 12th January 1864, No. 100.

Communicated to the Controller and Auditor of Public Works Accounts.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 208. Read the following letter from Colonel S. O. E. LUDLOW, Consulting Engineer for Irrigation and Canal Company, to Colonel C. A. ORR, R. E., Secretary to Government Department Public Works, dated Saint Thomé, 23rd December 1863, No. 126:—

SIR,

1. As directed in the Proceedings of Government No. 2,251 of the 10th August 1863, I have the honor to report on the proposal made by Lieutenant-Colonel Anderson for the transfer to the Company of the Public Work buildings and stores at Nellore.

2. On the receipt of the above Proceedings I put myself in communication with the Agent, who furnished me with a plan and valuation Statement of the buildings in question prepared by the Company's Engineer, and I referred these to the Government Executive Engineer at Nellore for his opinion. Captain Moberly demurring to certain items in that Statement, furnished* me with another showing what he considered to be a fair valuation of the buildings. This I forwarded to the Agent with a request that he would ascertain the Chief Engineer's views with regard to the items objected to by Captain Moberly.

* Letter No. 196 of 29th October 1863, herewith forwarded.

3. In reply the Agent communicates with the accompanying letter,† copy of another from the Chief Engineer, in which the latter recommends the purchase by the Company of the Public Work buildings at Nellore for the sum at which they have been valued by Captain Moberly, viz., Rupees 8,115, the buildings being well adapted to the Company's purposes.

† No. 1,680 of 5th December 1863.

4. Should the Government be disposed to accept the offer made by the Chief Engineer, I beg that the necessary instructions may be issued for a formal transfer of the property to the Company under a legal deed as soon as practicable.

5. As regards the Public Work stores at Nellore, Captain Moberly states that a proper list of them could only be prepared by taking stock, and that if the Company are likely to buy the whole, he would take stock with any person they might depute. But the Agent states‡ that he cannot express an opinion regarding the transfer of the stores to the Company until he is in possession of a Statement showing their description and value. Should the Government approve the arrangement proposed by Captain Moberly I shall ask the Agent to depute one of the Company's Engineers for the purpose.

Letter No. 118 of 11th September 1863, herewith forwarded.

‡ Letter No. 1,062 of the 21st September 1863, herewith forwarded.

No. 209. ORDER THEREON, 12th January 1864, No. 101.

The Government will defer passing orders on the subject of transferring to the Madras Irrigation and Canal Company the public buildings and stores at Nellore belonging to the Public Works Department.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 210. Read the following Proceedings of the Madras Government in the Military Department:—

Approving of the proposal to sink four more wells in the Cantonment of Bellary, and stating that the subject of the construction of a canal from the Toongabudra river will be considered in the Public Works Department, with reference to its Proceedings No. 1,388 of 1862. (Here enter 7th January 1864, No. 53.)

No. 211. ORDER THEREON, 12th January 1864, No. 102.

1. Communicated to the Superintending Engineer, 3rd Division, with a request that an Estimate may be at once submitted of the cost of the four additional wells referred to in paragraph 2 of the Quarter Master General's letter recorded. The work may in the meantime be proceeded with.

2. Copy of the Order marginally noted will be furnished to the Military Department with reference to paragraph 2 of the Procedings recorded above.

No. 3,621, 8th December 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 212. Read the following letter from Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Covilputty, 23rd December 1863, No. 1,585 :—

SIR,

1. In forwarding the enclosed resignation which I propose to accept, I have the honor to call your attention to the fact, that it is only five months since Mr. Telford joined this Division, a passed candidate from the College, where he must have passed an examination in a language of which he thus acknowledges himself perfectly ignorant.

1 Letter.

2. As there is no passed candidate in the Division, I can only fill up the place temporarily, and must beg that the Government will nominate to the permanent vacancy.

No. 213. ORDER THEREON, 12th January 1864, No. 103.

1. The Superintending Engineer, 8th Division, will be informed that the request contained in paragraph 2 will be complied with as soon as the services of a passed candidate are available.

2. Captain Moberly will be requested to report the name of the party who may be appointed to act as Táluq Overseer. If the person selected be an unpassed candidate the sanction of Government will be necessary prior to his entertainment.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 214. **Read the following Proceedings of the Board of Revenue, dated 21st December 1863, No. 8,087 :—**

Read the following letter from J. FRASER, Esq., Acting Collector of North Arcot, to W. HUDLESTON, Esq., Secretary to the Board of Revenue, date Chittoor, 28th November 1863, No. 241.

SIR,

1. I have the honor to submit the information called for by Government in their Order dated 18th September 1863, No. 2,708, communicated to me with the Board's Proceedings of the 22nd idem.

No. 134, dated 14th July 1863.

2. As stated in paragraph 16 of my letter marginally noted, 791, the tanks, rivers, and spring channels, being Government works of irrigation in this District are in a state of disrepair.

3. The enclosed Statement marked A, shows some of the tanks and channels under which remissions were granted in the four Taluqs* settled by me in the past Fasli. No repairs have been executed to these works for many years past; and many of them failed to receive any supply as they were actually incapable of holding water.

* Palmanair.
Gudiatam.
Vellore.
Poloor.

4. I have no means of ascertaining how much of the remissions granted under these works was owing to the absence of repairs, and how much to the bad season. No care was taken at the Jamabundy to note the loss under each of these causes separately. There was indeed no necessity felt to make this distinction, as the Ryots were entitled to indulgence in either case. The matter for consideration was whether there was just ground for remission ; and I was from the inquiry made at the spot in the presence of the Táluq and village authorities as well as the Ryots concerned, perfectly satisfied that many of these tanks were utterly incapable of retaining any thing like an adequate supply, and that the fall of rain was sufficient to have filled them, had they been in repair.

5. The works exhibited in the Statement alluded to have been selected as a specimen of those out of repair. I can, if necessary, furnish the names of all such works in each Táluq. But as the accounts in my Office do not exhibit these particulars, I have not thought it necessary to wait for the receipt of them from the Táluqs considering that Statement A would suffice

6. In paragraph 2 of the Orders under report, Government wish to know if the attention of the Department of Public Works had been promptly called to the repair of works under which remissions were given for want of repair. From the remarks entered in column 5 of the Statement referred to, the Board will observe that in eight cases the works were brought to the District Engineer's notice as requiring repair by letters addressed to him from this Office ; and that in some cases the Tahsildars also reported the same to Department Public Works Officers.

7. On referring to the correspondence with the District Engineer, from January 1860, I find that the repairs of upwards of 50 irrigation works were urged by letters, addressed from this Office, the inefficient condition of these works being brought to the Collector's notice either by the Tahsildars or the Ryots concerned. I beg to enclose a Statement (marked B) showing the names of such works, and the letters addressed to the District Engineer regarding them. As will be seen from the remark column, estimates were received in some cases, while in others no estimates were prepared. But in no case was the required repair executed, although the estimates received were countersigned and returned in due course.

8. I may mention here that the Tahsildars frequently correspond directly with the Officers, specially subordinates, of Department of Public Works, bringing to their notice the condition of the tanks, &c., needing early attention. They have always been strictly enjoined to do so. The village authorities have also been directed to report directly to the Range Officers as they travel through the country the state of their respective tanks when early repairs are required. In one or two instances they were fined for omitting to make such reports. I have therefore no doubt that the condition of most of the works shown in A has been duly reported on either verbally or in writing to the Range Officers. During the recent Jamabundy many Ryots and Monigars complained to me that their personal applications to the Range Officers for repairing their tanks, &c., were never attended to. I believe that they meant to refer particularly to subordinate officers such as Overseers and Supervisors, and not to the European Officers who till lately were in charge of Range.

ENCLOSURE No. 1, A.

ABSTRACT.—Statement showing some of the tanks and channels under which remissions were granted in the four Táluqs settled by the Acting Collector in Fasli 1272.

ENCLOSURE No. 2, B.

ABSTRACT.—Memorandum of irrigation works recommended to be repaired by the Collector, but not attended to by Public Works Department.

Submitted for the information of Government with reference to their Order in the Department of Public Works, quoted by the Collector.

(A true Copy and Extract.)

(Signed) W. HUDLESTON, *Secretary.*

No. 215. ORDER THEREON, 12th January 1864, No. 104.

1. Communicated to the Superintending Engineer, 4th Division, for such remarks as he may wish to offer on the Collector's representation.

2. Lieutenant-Colonel Boileau's particular attention will be called to the requisition in paragraph 3 of G. O. No. 2,708, dated 18th September 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 216. Read the following letter from Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Coonoor, 21st December 1863, No. 267:—

SIR,

1. I have the honor to forward for your favorable consideration an application from Mr. Supervisor McDonough, to be employed under Lieutenant Trail, in charge of the Coimbatore Jail works, until such time as his health shall be sufficiently restored to permit of his taking charge of a range.

2 Enclosures.

2. I strongly recommend that his request be complied with both on account of his health, which has suffered severely in the Collegal Táluq of Coimbatore, in consideration of which I removed him by his own desire to Canara, and on account of Lieutenant Trail's urgent need of good superintendence for the Coimbatore Jail, which I am unable to meet by withdrawal of a qualified Overseer from a Táluq charge or appointment of an extra man from the sanction. Under Mr. Fernandez's able management, and while no sanction exists for the Coloor Road Circuit, I shall have no objection to Mr. McDonough's absence from the Coondapoor Range. He is a deserving man, and I can rely on his application being founded solely on physical inability to undertake the executive duties of a range.

No. 217. ORDER THEREON, 12th January 1864, No. 105.

Under the peculiar circumstances represented in this letter, and because the Superintending Engineer, 7th Division, states that arrangements can be made for the charge of the Condapoor Range in the South Canara District the Government will not object to Mr. Superviso McDonough's employment as a temporary measure under the orders of Lieutenant Trail in the Coimbatore Jail works.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 218. Read the following letter from Lieutenant-Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 6th January 1864, No. 4,382 :—

SIR,

With reference to the Proceedings of Government No. 1,564, dated 4th July 1862, I have the honor to report that the other 12-horse (nominal power) Pumping Engine will not be required.

No. 219. ORDER THEREON, 12th January 1864, No. 106.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 220. Read the following Proceedings of the Madras Government in the Revenue Department :—

Acceding to the recommendation of the Board of Revenue that the Collector of Ganjam be permitted to pay to the Zemindar of Dharacotta Rupees 1,900 as compensation for 47½ Acres of wet land taken up in his Zemindary for the Berhampore and Russelcondah road. } (Here enter 5th January 1864, No. 10.)

No. 221. ORDER THEREON, 12th January 1864, No. 107.

Communicated to the Superintending Engineer, 1st Division.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 222. Read the following Despatch from the Right Honorable Sir C. WOOD, Bart., Secretary of State for India (Public Works), to His Excellency the Honorable the Governor in Council, Fort Saint George, dated India Office, London, 24th November 1863, No. 18 :—

SIR,

No. 47, dated 10th July 1863.
,, 42, do. 14th do. ,,
,, 50, do. 16th do. ,,
,, 51, do. 16th do. ,,
,, 53, do. 13th August ,,
,, 54, do. 25th do. ,,
,, 55, do. 25th do. ,,
,, 56, do. 31st do. ,,
,, 57, do. 8th September ,,
,, 58, do. 26th do. ,,

1. I have received your Despatches of the numbers and dates noted in the margin.

2. Nos. 50 and 58 have been transferred to the Marine Department.

3. The Report, forwarded with No. 54, shows that Colonel Ludlow's inspection of the Madras Irrigation and Canal Company's works was carefully made. It points out some apparently serious defects in the execution of the works to which the attention of the Company's Chief Engineer has, I observe, been consequently drawn, and, as I trust, with satisfactory results.

4. D. Bramanandum, late Accountant in the Kistna District, whose Memorial appealing against his dismissal from the public service was received with No. 56, may be informed that I cannot interfere in his case.

5. There is nothing in the other Despatches calling for special remark.

No. 223. ORDER THEREON, 12th January 1864, No. 108.

1. Paragraph 3 of this Despatch will be communicated to the Consulting Engineer Irrigation and Canal Company, with reference to the Orders marginally noted.

No. 2,055, dated 25th July 1863.

2. The Superintending Engineer, 2nd Division, will be requested to communicate to D. Bramanandum the orders of the Secretary of State contained in paragraph 4.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No 224. Read the following Proceedings of the Madras Government in the Educational Department :—

Sanctioning the Estimate of Rupees 38 for certain emergent repairs required by the Táluq school at Darampuri, Salem District- } (Here enter 4th January 1864, No 1.)

No. 225. ORDER THEREON, 12th January 1864, No. 109.

Communicated to the Superintending Engineer, 5th Division.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 226. Read the following letter from Lieutenant-Colonel C. V. WILKIESON, R. E., Controller and Auditor of Public Works Accounts, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 23rd December 1863, No. 2,145 :—

SIR,

	RS.
Additional amount to Trunk Road No. 9 from the Lower Coleroon Anicut to Combaconum	675
Do. to Road No 2 from the grand Anicut to the Coleroon at Seyalli	3,397
Do. to do. No. 1 from Tanjore to Negapatam	3,900
Road west of Tanjore	2,400
Do. north of Seyalli to Anakavan Chuttrum	840
Railway feeders, 109 miles at 100 Rupees per mile	10,900
Do. do. 135 do. at 80 Rupees do.	10,840
	32,952

1. In Part III of the printed Budget of 1862-63, the works noted in the margin are entered without the date of sanctions, but expenditure has been carried out on them by the District Engineer of the Tanjore District. In January 1863, that Officer was requested to explain under what authority these works were undertaken and how he proposed to meet the expenditure on them; as no reply had been received up to October 1863, I reminded the Superintending Engineer of the 6th Division, who in his letter No. 1,360 of the 14th instant, states that the expenditure on the works in question was met from the maintenance grant sanctioned in the Budget above referred to.

2. In paragraph 34 of Government Order No. 317 of the 16th February 1863, reviewing the Budget of 1863-64, it is stated that the Estimates for the works under reference have been mislaid in the Government Office, I have therefore the honor to request you to obtain the sanction of Government for my passing the Bills for expenditure in 1862-63, on these works, provision having been made in the Budget of that year for these works though not formally sanctioned.

No. 227. ORDER THEREON, 12th January 1864, No. 110.

1. The Controller is authorized to pass the expenditure incurred during 1862-63 on the roads specified in this letter.

2. The late District Engineer of Tanjore should have been aware that the formal sanction of Government is necessary to all Estimates entered in the Budget before any outlay is incurred thereon.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 228. Read the following Proceedings of the Madras Government in the Financial Department :—

Communicating letter from the Accountant General requesting the speedy submission of the Local Fund Budget for 1864-65. } (Here enter 7th January 1864, No. 12.)

No. 229. ORDER THEREON, 12th January 1864, No. 111.

Communicated to the Superintending Engineers of Divisions and to the Controller and Auditor of Public Works Accounts with a request that the Statements called for in G. O. No. 2,079, dated 27th July 1863, may be furnished without delay.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 230. Read the following Proceedings of the Madras Government in the Military Department :—

Approving of the Estimate of Rupees 1,605 for repairing the Arsenal at Vizagapatam. } Here enter 6th January 1864, No. 41.)

No. 231. ORDER THEREON, 12th January 1864, No. 112.

1. Communicated to the Superintending Engineer, 1st Division.

2. The cost of the repairs, viz., Rupees 1,605, will be met from the sum of Rupees 25,000 authorized by the Government of India to be transferred from the head of "Reserve" to that of "Repairs."

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 232. Read the following letter from Lieutenant-Colonel H. W. HITCHINS, R. E., Superintending Engineer, 5th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Salem, 24th December 1863, No. 1,689 :—

SIR,

1. With reference to the Proceedings of Government, dated the 7th September last, No. 2,570, I have the honor to suggest that the sum of Rupees 690, being the cost of constructing a new sluice for the Darapuram Vadamanery tank in the Omalur Division of the Salem Táluq, may be authorized to be taken out of the balance* available from the 10,000 Rupees portion of the allotment for the Cuddalore Court House.

Portion of the allotment for the Cuddalore Court House not required.

		RS.
Order of Government dated 13th November 1863, No. 3,289		10,000
Do. for the construction of Stone Vanghanies in the bank of the Cauvery River ...	3,910	
Order of Government dated 7th December 1863, No. 3,595, for providing glazed ventilators for the Cells in the ground floor of the Salem Jail	3,040	
		6,950
		* 3,050

2. Both the Collector and the Executive Engineer in charge of the Salem Range are of opinion that the work in question should be executed at once to prevent a serious falling off in the Revenue from the tank, I therefore request that the necessary transfer may be sanctioned at an early date.

No. 233. ORDER THEREON, 12th January 1864, No. 113.

Under the circumstances represented in paragraph 2, the Governor in Council sanctions the Estimates* amounting to Rupees 690 for constructing a new sluice to the Darapuram Vadamanery Tank in the Omalur Division of the Salem Táluq, and grants authority for the cost of the work being defrayed in the manner proposed by Lieutenant-Colonel Hitchins.

* Submitted with letter from the Superintending Engineer, 5th Division, recorded in G. O. No. 2,570, dated 7th September 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 234. Read the following Proceedings of the Madras Government in the Judicial Department, dated 26th December 1863, No. 2,023 :—

Read the following letter from the Secretary to the Government of India, Financial Department, dated Fort William, the 2nd December 1863, No. 5,965.

Judicial Department. "I am directed to acknowledge the receipt of your letter,* No. 1,760, dated the 12th ultimo, and to state that under the circumstances represented, the Governor General in Council is pleased to authorize the transfer of Rupees 2,000 from the Reserve for contingencies under "F IX Miscellaneous" to the Public Works Budget, in order to meet the advance required for converting the old Jail at Trichinopoly into a Lunatic Asylum."

Communicated to the Department of Public Works, whence orders will be issued for providing two wards in the old Jail for the reception of Lunatics, in anticipation of the conversion of the Jail into a Lunatic Asylum. The work should be executed with as little delay as possible.

(True Extract.)

(Signed) A. J. ARBUTHNOT,
Chief Secretary.

No. 235. ORDER THEREON, 13th January 1864, No. 114.

1. Ordered to be communicated to the Superintending Engineer, 6th Division, who will issue immediate instructions for the commencement of the work.

2. The Deputy Auditor and Accountant General will arrange for the transfer of the sum of Rupees 2,000, referred to in the foregoing Proceedings, to the credit of the Public Works Department, and Captain Foord will submit a supplemental Estimate of funds for the current month in order to the grant of a letter of credit.

3. The difference, viz., Rupees 9,980, between the sum now sanctioned* and the estimated cost of the work marginally noted will be entered in the Budget for 1864-65.

* Rupees 2,000.
Converting the Jail at Trichinopoly into Lunatic Asylum, Rupees, 11,980.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 236. Read the following letter from Lieutenant-Colonel J. C. ANDERSON, R., E., Superintending Engineer, 2nd Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Masulipatam, 22nd December 1863, No. 38 :—

SIR,

1. With reference to G. O. No. 3,690, dated 14th December 1863, requiring further explanation regarding certain transfers proposed from surplus allotment for Nellore tank, I have the honor to report that the Estimate for Veeranah Canupur Calingulah should be Rupees 5,460, as remarked by Government in paragraph 2, that there was no allotment for the "Restoration of Ramasagarum tank" though an expenditure of Rupees 885-5-4 had been incurred as described in remarks of the Statement appended to my letter No. 30; further that Rupees 3,000 is probably as much as the Range Officer will be able to expend on the Edur branch of Jaffer Sahib's Channel in addition to Budget allotment.

2. The proposed transfers would then stand as follows :—

	RS.
Calingulah Veeranah Canupur Tank	4,774
Restoration of Ramasagarum Tank	1,096
Edur branch Jaffer Sahib's Channel	3,000
	8,870

3. I would beg that the balance of the allotment to the Nellore tank, namely, Rupees 5,283, may remain untouched for the present, as Lieutenant Smith is occupied in revising the Estimate for its improvement, and as it is possible he may be able to expend the greater part if not the whole of the amount on that work.

No. 237. ORDER THEREON, 13th January 1864, No. 115.

1. On the explanation now afforded the Government sanctions the appropriation of a sum of Rupees 8,870, in the manner proposed in paragraph 2 of the foregoing letter from the current year's allotment* for the Nellore tank.

* Rupees 17,100.

2. Lieutenant-Colonel Anderson is requested to submit proposals at an early date for the appropriation of the balance still available from the Nellore tank allotment.†

† Rupees 5,283.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 238. Read the following :—

ROYAL ENGINEERS.

No. 7,167. / 36.

It is requested that the above heading may be *quoted* in subsequent correspondence on this subject, with this Department.

HORSE GUARDS, S. W.
19th November 1863.

SIR,

Adverting to the letter from this Office of the 12th August last, No. 6,400-35, addressed to the Lieutenant General, Commanding the Forces in Madras, acquainting him that the Officers of Royal Engineers, named in the margin, had been put under orders for duty in that Presidency ; I have now the honor to inform you that they will embark for Madras on board the Mail Packet leaving Southampton on the 20th instant, and to request that you will be good enough to cause the enclosed documents to be completed, signed by those Officers, and returned to this Office by the first opportunity after their arrival in Madras.

Lieutenants C. Cunningham, A. C. Smith.

I have the honor, &c.,
(Signed) F. E. CHAPMAN, Colonel.
Deputy Adjutant General, Royal Engineers.

The Secretary to the Government, Public Works Department, Madras.

No. 239. ORDER THEREON, 13th January 1864, No. 116.

Ordered that the following letter be sent :—

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Ordered that the following letter be despatched.

No. 240. From Colonel C. A. ORR, R. E., Secretary to the Government of Fort Saint George, Public Works Department, to the Deputy Adjutant General, Royal Engineers, London, dated 13th January 1864, 117.

SIR,

I am directed to re-transmit the returns forwarded with your letter No. 7,167-36, dated 19th November 1863, and to state that the information required has been duly entered therein.

No. 241. Read the following letter from the Secretary to the Government of Bombay, Public Works Department :—

Forwarding copy of an Advertisement in regard to the lease of a site for a first class Hotel proposed to be built on the Esplanade of Bombay, and requesting that it may be published in two of the leading Newspapers at Fort Saint George. } (Here enter 16th December 1863, No. 1,601.)

No. 242. ORDER THEREON, 13th January 1864, No. 118.

1. Ordered that copy of the Advertisement received with the foregoing letter be forwarded to the Superintendent Government Gazette Press, for publication in six successive issues of the "Fort Saint George Gazette."

2. Ordered also that the Proprietors of the "Madras Athenæum" and the "Madras Times" be requested to insert the Advertisement referred to in four successive issues of their respective papers.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 243. Read the following letter from Lieutenant-Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 7th January 1864, No. 4,401:—

SIR,

1. Observing from one of the Estimates (No. 9) sanctioned in the Proceedings of Government, No. 3,576, dated 4th December 1863, for the proposed water-works at Guindy, that the several articles provided for therein such as iron pipes, tubes, sluice cocks, fountains, &c., will have to be obtained from England, I have the honor to request that the necessary application may at once be made to the Home authorities for their despatch to this country in order that there may be no delay on their account in carrying on the works.

3 Plans.
11 Estimates.

2. I have also to request that I may be informed whether the execution of the works is to be entrusted to the Special Executive Engineer, Mr. Fraser, or to the Executive Engineer at Saint Thomas' Mount.

3. The Plans and Estimates which accompanied your Memorandum of the 11th December 1863, are herewith returned.

No. 244. ORDER THEREON, 13th January 1864, No. 119.

1. The Superintending Engineer, 4th Division, will be informed that application has been already made to the Home Government for the early despatch of the articles mentioned in paragraph 1 of the foregoing letter.

2. Orders will hereafter be passed on the subject of paragraph 2.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 245. Read the following Proceedings of the Madras Government in the Military Department:—

Approving for entry in the Budget of 1864-65, Estimates aggregating to Rupees 85,160 for Military buildings at the Horse Artillery Lines at Saint Thomas' Mount. } (Here enter 7th January 1864, No. 64.)

No. 246. ORDER THEREON, 13th January 1864, No. 120.

Communicated to the Superintending Engineer, 4th Division, for information and guidance.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 247. Read the following Proceedings of the Madras Government in the Educational Department:—

Sanctioning the Estimate of Rupees 260 for certain repairs required by the Zillah School-house at Cuddapah. } (Here enter 4th January 1864, No. 2.)

No. 248. ORDER THEREON, 13th January 1864, No. 121.

Communicated to the Superintending Engineer, 3rd Division.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 249. Read the following Proceedings of the Madras Government in the Military Department, dated 24th December 1863, No. 4,117.

Read the following papers:—

Proceedings of the Board of Revenue.

Submitting letter from the Collector of Madras forwarding a Statement showing the annual receipts for the last seven years on account of the grass rents of the Town Esplanades and the Fort Glacis, and requesting the Commissioner of Police to furnish a Statement of the same for the previous three years. } (Here enter 25th August 1863, No. 5,317.)

From the Municipal Commissioners.

Submitting Plans and Estimates for enclosing the Town Esplanades, together with a letter from their Civil Engineer in which he states the Establishment that he considers necessary to maintain their conservancy. } (Do. 21st September 1863.)

From the Municipal Commissioners.

Stating that they have no objection to take entire charge of the Monument Esplanade for the benefit of the public when once laid out as proposed in their letter of 21st ultimo. } (Do. 13th October 1863.)

Proceedings of the Board of Revenue.

Requesting the Acting Collector of Madras to state the probable effect upon the grass rents of the improved arrangements for enclosing the Town Esplanades, and observing that an explanation in regard to the increase in the rent of 1862-63 was submitted to Government in Proceedings of 10th October 1863. } (Do. 13th October 1863, No. 6,572.)

Proceedings of the Board of Revenue.

Submitting letter from the Collector of Madras forwarding explanation with respect to the increase in the rent of 1862-63 over that of the previous year. } (Do. 10th October 1863.)

Proceedings of the Board of Revenue.

Submitting letter from the Collector of Madras regarding the two large Esplanades facing Pachiappah's Institution and Evening Bazaar. } (Do. 16th Nov. 1863, No. 7,284.)

ORDER.—1. The Governor in Council directs that measures be taken by the Municipal Commissioners for enclosing the Town Esplanades and Fort Glacis. Of the designs received from them he considers that which provides for having cast-iron standards and iron rails (No. 2) to be the most suitable. He accordingly resolves that the probable cost of enclosing the Esplanades and Glacis according to this design; of ploughing the soil where necessary and laying it down with grass; of building a Band Stand on the Monument Esplanade and adapting it as a place of recreation for the inhabitants of Black Town, be entered in the Public Works Budget for 1864-65, in view to the Municipal Commissioners being provided with the necessary funds.

	RS.
Mr. Horgan's Estimate (No. 2) for iron standards and iron rails considered by the Municipal Commissioners too low	21,512
Ploughing, &c.	5,000
	26,512
Band Stand, &c., for Monument Esplanade	3,000
Total ...	29,512

2. The Monument Esplanade will be made over, after the above improvements are effected, to the Municipal Commissioners.

3. The conservancy of the other Esplanades and the Glacis, and the leasing out of the grass, &c., thereon will be entrusted to the Municipal Commissioners.

4. Paragraphs 8 and 9 of the letter from the Municipal Commissioners, dated 21st September last, will be communicated to the Commander-in-Chief, for such notice and the issue of such instructions for the future as His Excellency may consider necessary.

5. Resolved that the thanks of Government be conveyed to the Municipal Commissioners for the Plans and Estimates submitted by them, which will be returned through the Department of Public Works after entering the amount required in the Budget.

(True Extract.)

(Signed) H. MARSHALL, Colonel,
Secretary to Government.

No. 250. ORDER THEREON, 13th January 1864, No. 122.

1. Communicated to the Superintending Engineer, 4th Division.

2. The Estimate amounting to Rupees 29,512, prepared by the Civil Engineer to the Municipal Commissioners, will be entered in the Budget for 1864-65.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 251. Read the following Proceedings of the Madras Government in the Military Department:—

Approving of the Plan and Estimate for the proposed new School Room at Cannanore, Malabar District. } (Here enter 7th January 1864, No. 63.)

No. 252. ORDER THEREON, 13th January 1864, No. 123.

1. Ordered to be communicated to the Superintending Engineer, 7th Division.

2. A sum of Rupees 5,000 having been already* sanctioned for the work from the current year's Reserve, the difference (Rupees 19,700) between that amount and the Estimate† now approved will be entered in the Budget of 1864-65.

* G. O. No. 2,843, dated 30th September 1863.

† Rupees 24,700.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 253. Read the following letter from Lieutenant-Colonel A. C. PEARS, Postmaster General, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 7th January 1864, No. 5,848:—

SIR,

In continuation of my letter No. 5,685 of the 29th ultimo, I have the honor to subjoin for the information of Government, copy of one to my address since received from the Superintending Engineer, 2nd Division, forwarding a report by the Executive Engineer on the state of a portion of the road in question.

From Lieutenant-Colonel J. C. ANDERSON, R. E., Superintending Engineer, 2nd Division, to Colonel A. C. PEARS, Postmaster General, Fort Saint George, dated Masulipatam, 28th December 1863, No. 49.

SIR,

I have the honor to forward copy of a report from Captain Moberly, Executive Engineer, 1st Class, on the state of Trunk Road No. 6, south of Nellore, referred to in my letter No. 35, dated 17th instant.

From Captain A. S. MOBERLY, R. E., Executive Engineer, 1st Class, Nellore District, to Lieutenant-Colonel J. C. ANDERSON, R. E., Superintending Engineer, 2nd Division, dated Guduru, 22nd December 1863, No. 309 :—

SIR,

1. In reply to your letter No. 85 of the 17th instant, I beg to inform you that from the 33rd mile stone or northern limit of the Madras District, as also of the Runnigadu backwater, there exists no obstacle until you reach the 44th mile, just beyond the 43rd mile stone is a breach in the road where was formerly a tunnel of, I believe, three vents; an Estimate has been called for on several occasions and on the last occasion by myself in June, but as far as I can find out, no Plan or Estimate has been submitted. I shall be in that neighbourhood shortly, and will then submit a Plan and Estimate.

2. From this place as far as Nellore, there are no obstacles besides the Suloorpett and Soornamooki rivers, and the break in the 88th mile a double set of carts would only be required for a few days during the year.

3. To the north of Nellore the road is passable during the greater part of the year as far as the Musanur valley, but there are portions in the Nellore Range in, if I remember rightly, the 125th and 126th miles, which require completing, and where there are large gaps for bridges and tunnels, these might be finished in a few months, and then with a boat at the Pydairú river the road would be passable throughout the year.

4. As regards the Musanur valley I think that the plan you suggest could be easily carried out, beyond Tettoo I do not know the road and so am unable to give any opinion.

(True Copy.)

(Signed) J. C. ANDERSON, Lieut.-Colonel, R. E.,
Superintending Engineer, 2nd Division.

(True Copy.)

(Signed) A. C. PEARS, Lieut.-Colonel,
Postmaster General.

No. 254. ORDER THEREON, 13th January 1864, No. 124.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 255. Read the following Proceedings of the Board of Revenue, dated 19th December 1863, No. 8,041 :—

Read the following letter from C. W. READE, Esq., Collector of South Arcot, to W. HUDLESTON, Esq. Secretary to the Board of Revenue, dated Tricalore, 8th December 1863, No. 323.

SIR,

1. The Anicut across the Pooneaur near the place whence I now write, and commonly called the Trevanelloie Anicut, has now been finished nearly two years, and the advantages arising from this work in the preservation of existing revenue, and in bringing such waste lands as were available under cultivation have been fully realized on the southern bank of the river; and although the work was suggested and sanctioned, I believe, principally with this object, and in furtherance of the interests of Messrs. Parry and Co., who have a large Sugar factory in the neighbourhood, and who, I understand, were the prime movers in the project; still the main accession of Revenue to be looked for is from lands on the northern side or bank of the Pooneaur and there are interests in that direction which can be greatly promoted by this Anicut, and which I think demand immediate attention.

2. Before the construction of the Anicut, the water which is now appropriated in small freshes almost entirely to the lands on the southern side, used to supply a very important auxiliary means of irrigation to the lands on the northern bank, and found its way through a few rudely formed channels to fields and tanks on that side; and when the work of the Anicut was first projected, opposition was raised by the Ryots on the ground that their interests would suffer by the obstruction thus offered to their customary supply. To meet this objection it was, I believe, part of the original scheme to construct eventually a main irrigation Channel on the northern bank, from the head of the Anicut with minor branch Channels where required, so as to secure from loss those hitherto accustomed to the use of the river water as above, and as well to greatly extend the cultivation of land in that direction, and thus create additional revenue; and for this purpose an Officer

from the Engineering College at Madras was specially deputed to take the levels of the country, and to mark out the main and other necessary branch Channels through which it was intended to carry the water over an extensive area of country supplying a great number of tanks, besides affording the means of irrigation to hitherto unoccupied and waste tracts. These Channels have now all been marked and mapped out in a very elaborate and scientific manner with plans and estimates of cost, but as yet, contrary to my impression, the work has not been commenced; and although in the past year Rupees 10,000 was entered in the Budget, I understand that the item was struck out by the Government of India. It now finds a place in the Budget, for the coming official year, and my object in addressing the Board of Revenue is to press on their notice the urgency of the work, and to solicit that sanction be given at once for appropriating any probable unexpended funds from other works of less importance, to be devoted to the immediate carrying out of these irrigation Channels to which I have adverted.

3. In my Administration Report for the two past years I noticed this Anicut, and in my last I stated, as I then thought was the case, that the work had been actually begun. In this however I was mistaken, and for want of funds nothing has been done. The additional revenue to be expected on the completion of the Northern Channels may be estimated at least as equivalent to their cost, and the area of new land to be brought under cultivation may be roughly calculated at Cawnies 1,400. The preservations of existing revenue over the extensive portion of country which the Channels will traverse is likewise no unimportant consideration, apart from any anticipated increase; and the extent of that revenue may be tolerably estimated when it is remembered that a water supply will be kept up and ensured to a large number of tanks, any of which, unaided by such source of supply, might fail to afford adequate means for the due cultivation of the lands dependant on them in seasons of a comparative scarcity of rain.

4. In a note appended to one of the plans for my information by Mr. O'Shaughnessy, the Officer of the Department of Public Works, who, unassisted, has superintended the construction of the Pooneaur Anicut, and through whose exertions and able supervision, the Channels on the northern bank have all been surveyed and mapped out, it is stated. "The total length of "Channel is about ten miles; the cost, including masonry works, will be about 15,000 Rupees. "Throwing a supply of water into the Pombay river will increase the revenue immediately by "about the probable cost of the work. The Channel is to be cut ten yards wide at bottom and "with a fall of two feet a mile, and depth of water of three feet, which will convey to the "reservoirs one million cubic yards of water daily. The Pooneaur is in fresh from 60 to 90 days "in the year, but if it were in fresh only 20 days, and wastage allowed for the water conveyed by "the Channel, it will leave sufficient for the tanks to irrigate over 15,000 Acres of land through-"out the year."

5. I feel confident that the foregoing will satisfy the Board and Government of the urgency of these irrigation Channels; and I would draw their attention to what is a fact, as stated by Mr. O'Shaughnessy, that the expected increase to the revenue on the completion of the Channels will be immediate, and not merely gradual and prospective; and if, on a rough estimate, that increase will, in one year, cover the proposed expenditure of the work which is to produce it, it surely cannot be necessary to say more on the necessity for immediate action, or will it be required of me to urge further reasons in support of my recommendation that the requisite funds be at once furnished, either by their transfer from other works of less importance, or from works on which the entire amount sanctioned for the year will, in all probability, not be expended.

6. The last two seasons have been comparatively so favorable, and the rains and freshes so abundant, that fortunately since the completion of the Anicut, the anticipated injury to the Ryots on the northern bank of the river has not arisen, and the mouths of all have been closed as it were; but in both years the people, whose interests are somewhat jeopardized at present, have not failed at the Jummabundy to remind me of what may happen in any bad or indifferent season; and it is to guard with certainty against this contingency, and at once to place both Ryots and Revenue beyond the chance of loss, that I now desire so earnestly to press the importance of the immediate commencement of these Channels; and I do hope that I shall not have pleaded in vain, but that speedy provision will be made to carry out the work, which ought, I think, to be conducted under the superintendence of some special competent Officer.

7. A sketch Plan of the main Channel, with the levels of the surrounding country to a limited extent has been laid by me before His Excellency the Governor; but I have not deemed it necessary to re-transmit this, as it is cumbersome, and could throw no light on the matter beyond illustrating, as it does, the usefulness of the project which I have been advocating.

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1. Ordered to be submitted to Government with the Board's special recommendation that if available from any source, the necessary funds be at once placed at the disposal of the Superintending Engineer for this important and urgently needed work.

2. The sum required for the remainder of the current year can probably be without difficulty transferred from other works, for which excess funds have been provided.

(A true Copy and Extract.)

(Signed) W. HUDLESTON, *Secretary.*

No. 256. ORDER THEREON, 13th January 1864, No. 125.

Communicated to the Superintending Engineer, 5th Division, with the request that he will report, without delay, whether any portion of the current year's funds assigned for works in South Arcot and the other Districts within his range can be spared for extending the advantages of the Trevanellore Anicut to the lands on the northern bank of the Puniár.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 257. Read the following letter from Lieutenant-Colonel C. V. WILKIESON, R. E., Controller and Auditor of Public Works Accounts, to Colonel C. A. ORR, R. E, Secretary to Government, Public Works Department, dated Madras, 5th January 1864, No. 2,166:—

SIR,

1 Government Order, 29th January 1862, No. 74.

1. In reply to G. O. dated 19th December 1863, No. 3,762, I have the honor to furnish the following explanation.

2. The two sums of Rupees 750 and 2,000, referred to in paragraph 3 of the above G. O. were omitted by the Superintending Engineer, 1st Division, from the return for May, and were put in by the Divisional Auditor on examination of the local returns in this Office, but the entry thereof in the local return for June was omitted by him to be struck out, and the double entry had thus taken place.

3. The sum of Rupees 2,500, sanctioned in the Supplemental Budget was, with like sanctions in other Districts, shown in the returns furnished by Superintending Engineers, allowed to remain under the impression that these also should be reported to the Government of India, but as upon the explanation given (vide G. O. 9th November 1863, No. 3,257), it was decided that only sanctions from the *boná fide* Reserve are to be shown under that head, such items have not been allowed in subsequent returns.

4. To secure greater accuracy and uniformity in the checking and passing of sanctions as given in the local returns, I have assigned the duty of both examining the local, and compiling the general return to one responsible Auditor, and by this arrangement I expect that the return will in future be free from the discrepancies noted in the G. O. under acknowledgement.

To Government 11th December 1863, No. 2,087.

5. The works noted in the margin of paragraph 7 were omitted by the Superintending Engineers in their returns for June. The first, Survapully Channel, sanctioned on the 1st June 1863, was included in that for May, and the explanation of this Office and that of the Superintending Engineer has already been laid before Government. The three other items have been included in the general return for July, though not brought forward by the Superintending Engineer in his return.

6. The three works referred to in paragraph 8 are entered in the local returns under the head Repairs. They were recommended as such to Government and sanctioned accordingly. The sanctions were given prior to the restriction to the sanction of repairs from the Reserve Fund (G. O. 3rd July 1863), and as they appear in the Reports of Progress as well as in the Appropriation Return under the head of "Repairs," they were accordingly passed as such. The first item, relating to the improvement and repairs to the late Bank premises, was submitted for sanction in two distinct Estimates. For improvements Rupees 1,690, and repairs 1,810, and they are separately entered in the local returns. The second item, collection of materials for repairs of unforeseen breaches in the Godavery Anicut, is taken under "Repairs," as was always hitherto done; and the Estimate for the road from Chingleput to Tirukalikoondrum was recommended as one for repairs, it being an old road. Should the Government however direct these sanctions to be recognized as for new works, the Progress Reports will be altered accordingly in communication with the Superintending Engineers.

No. 74, P. W. D., dated 29th January 1863.

7. A spare copy of the G. O. dated 9th January 1862, *No. 73 Military Department* is herewith forwarded.

8. With reference to paragraph 10, I beg to be informed whether it is the wish of Government that appropriations for emergent works, which local authorities are empowered in certain cases to authorize by the rules in the Code, are not to be included in the returns for Government, until Estimates for them are sanctioned.

9. As respects the appropriations for maintenance of specific lines of road included in the return referred to in paragraph 11, I beg to state that the entries thereof were not made anew in this Office, but were taken from the local returns. Neither the form of the return given by the Government of India, nor the orders passed thereon point out any special direction for the omission of such grants, which have therefore been allowed to remain. Without these entries the total appropriation will appear to be considerably less than the total assignment for repairs, which is also required to be shown. Should the Government direct the omission of such grants for the future their orders will be attended to. It is believed, however, that similar grants were embodied in the Appropriation Returns formerly forwarded by the Chief Engineer.

No. 258. ORDER THEREON, 13th January 1864, No. 126.

1. The Controller will be informed with reference to paragraph 6 that the arrangement to be followed in the preparation of the Appropriation Registers has been clearly laid down in the Orders marginally noted.

19th December 1863, No. 3,761.

Paragraph 10 of G. O. No. 3,762, dated 19th December 1863.

2. The reference in paragraph 8 is altogether unnecessary, as the Government has ruled that in really urgent cases works may be proceeded with without Estimate.

3. With regard to the entries in the returns submitted to Government of appropriations for the maintenance of specific lines of communication, Lieutenant-Colonel Wilkieson states that they were not made by his Office, but were taken from the local returns, and that neither the form given by the Government of India, nor the orders passed thereon point out any special direction for their omission. As however no instructions have been received for the inclusion of such appropriations in the returns to be furnished to the Government of India, the Controller will see that they are omitted from all future statements submitted to this Department.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Ordered that the following letter be despatched.

No. 259. From Colonel C. A. ORR, R. E., Secretary to the Government of Fort Saint George, Public Works Department, to the Secretary to the Government of India, P. W. D., dated 13th January 1864, No. 127.

SIR,

1. I am directed by the Honorable the Governor in Council to forward, for submission to the Government of India, with reference to previous correspondence on the subject of light Railways in this Presidency, the accompanying papers relating to the construction of the several marginally described lines which the Chairman of the Indian Tramway Company, Sir Macdonald Stephenson, who lately visited Madras, has intimated that the Company is prepared to undertake to complete on certain terms.

Arconum to Conjeveram	17	Miles.
Wallajahnugger to Arcot Railway Station ..	5	,,
Beypore to Calicut	8	,,
Tinnevelly to Tuticorin viâ Palamcottah	30	,,
Madras to Saint Thomas' Mount, Poonamallee and Avady Railway Station	20	,,
Cochin line, viz., Shoranoor Railway Station by Trichoor to Kerryaputnum	42	,,
Total	122	Miles.
Or including sidings about	135	,,

2. These terms are :—

(1.) The gauge to be 3' 6," or 5' 6," at the option of the Company.

(2.) The Government to provide a suitable and substantial substratum, viz., earthworks, culverts, bridges, viaducts and the ballast required for a good metalled road.

(3.) The Government to provide a maintenance of £25 per mile per annum for a 3' 6," or £50 per mile per annum for a 5' 6" gauge, without restriction of time.

(4.) Colonel Strachey's draft of conditions to be otherwise observed.

(5.) The Company to be permitted to construct, on the same terms, any extension, or other selected lines, to the collective extent of 500 miles, of which the Government shall approve, and which the Company may then be prepared to proceed with.

3. The proposals thus made having been brought forward in so definite a form by a gentleman thoroughly acquainted with the objects and resources of the Company which he represents, this Government was satisfied that it would be expedient to facilitate those objects in every reasonable manner: and having the assurance of Sir Macdonald Stephenson that, as materials for laying down and working Light Railways on the roads from the Arconum station of the Madras and South Western Railway to Conjeveram, and from the Arcot station of the same Railway to the large commercially important town of Wallajahnugger were being prepared, and partly on their way out to this country, any difficulties or delays in accepting his terms would prejudice the power of the Company to raise money in England and cause the indefinite postponement of the introduction of a system of transport which promises such great advantages, the Governor in Council anxious to facilitate and expedite the formation of one or more of these lines of Railway as an experiment, resolved to accept the proposals of the Tramway Company so far as related to the construction of these two lines subject to the confirmation of the Government of India, and to allow the Company in the meantime, and in anticipation of the execution of an agreement and of registry, at once to take possession of half the width of the roads in order to preparing them for the reception of rails shortly expected from England.

4. The Government was the more readily induced to make these partial concessions as they did not differ materially from those formerly offered, or which this Government has been authorized to grant, except as regards the amount of maintenance, and the non-limitation of time for which it is to be granted.

5. Moreover, the stipulation which appeared most opposed to the views of the Government of India, viz., that the Company should be permitted to construct "on the same terms" other lines, and extensions, to the collective length of 500 miles is waived, and it is probable that, as occupation of land already in the possession of Government is alone demanded, at all events in the first instance, the provisions of Act XXII of 1863, will not require to be brought into operation.

See Section XX of the Act.

6. Under these circumstances, I am to request that the proceedings of this Government may be favorably viewed by the Government of India, and that the concessions made to the Tramway Company may be confirmed, pending the submission of a draft Agreement, which the Government Solicitor will be instructed to draw up for the approval of the Governor General in Council.

7. With respect to the other lines noted in the margin of paragraph 1, the Government have intimated to Sir Macdonald Stephenson that it considered those from Beypore to Calicut and from the Shoranoor Railway Station to Keerryaputnum the most important, and that the terms on which the Indian Tramway Company proposed to construct them, as well as any other lines which it may be prepared to undertake, would be taken into consideration as soon as Estimates of the probable cost of completing the suitable and substantial substratum, which is to be provided by the State, shall have been received.

No. 260. Read the following letter from Lieutenant-Colonel S. O. E. LUDLOW, Consulting Engineer for Irrigation and Canal Company, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, Chepauk, dated Saint Thomé, 7th January 1864, No. 129:—

SIR,

1. As I have to take with me for reference some of my Office records, plans, &c., while on tour of inspection, I require for their security four small wooden boxes estimated to cost in the aggregate Rupees 24, I request the sanction of Government to the same.

2. The amount allowed for my Office contingencies in the current year's Budget will be sufficient to meet the above expenditure.

No. 261. ORDER THEREON, 15th January 1864, No. 128.

Sanctioned accordingly.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 262. Read the following Proceedings of the Madras Government in the Military Department:—

Approving, with certain exceptions which appertain to the Judicial Department, of the Estimates forwarded with Public Works Proceedings No. 3,594 of 1863, for constructing and altering certain buildings at Ootacamund and Wellington, Coimbatore District. } (Here enter 4th January 1864, No. 10.)

No. 263. ORDER THEREON, 15th January 1864, No. 129.

1. Communicated to the Superintending Engineer, 7th Division, with reference to the Proceedings of this Department, dated 7th December 1863, No. 3,594. Colonel Walker will be requested to bring forward after 1st May next the Estimates* which have now been sanctioned, when the necessary provision of funds will be made.

	RS.
* For a Lock Hospital at Ootacamund	1,590
,, tiling Native Hospital at do.	770
,, fixing roof drainage pipes to Wellington Barracks	1,590

2. The Estimates for the works† marginally noted will be referred to the Judicial Department.

† Joint Magistrate's Office at Wellington... ...	3,390
Additions to Police Station House at Wellington.	1,200

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 264. Read the following letter from Lieutenant-Colonel C. V. WILKIESON, R. E., Controller and Auditor of Public Works Accounts, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 6th January 1864, No. 2,184:—

SIR,

1. In submitting for the orders of Government the accompanying original letter from the Superintending Engineer, 2nd Division, relative to appropriations made for "repairs," I have the honor to observe that it is not apparent to me how the difficulty pointed out would have been avoided if the full amount of the sanctioned Estimates for repairs were entered in the "appropriation returns."

1 Letter from the Superintending Engineer, 2nd Division, No. 5, dated 14th December 1863.

2. Superintending Engineers were requested to enter in the "appropriation return," in the column, "sum appropriated," only the amount likely to be spent within the official year, in order that the available balances may be appropriated for other works, which could not be done if the full amount of all sanctioned Estimates for repairs were entered in the column of "sum appropriated."

3. It appears to me that the only way in which the difficulty can be met is, for Superintending Engineers to furnish a distinct Statement of modifications proposed to be made by them, showing the appropriations already made for certain works which should be cancelled, and those to be substituted instead. This Statement will have to be submitted through Government to the Government of India, in correction of entries in present Statements.

No. 265. ORDER THEREON, 15th January 1864, No. 130.

No. 3,763. Ordered to lie over till the receipt of the reply to the reference made to the Government of India under date the 19th December 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 266. Read the following Proceedings of the Madras Government in the Military Department :—

Approving of the Plans and Estimate, amounting to Rupees 13,130, for putting the Sea Face of Fort Saint George into a more perfect state of defence. } (Here enter 6th January 1864, No. 34.)

No. 267. ORDER THEREON, 15th January 1864, No. 131.

1. Communicated to the Superintending Engineer, 4th Division, for information and guidance.

2. A sum of Rupees 5,000 will be placed at the disposal of the Superintending Engineer 4th Division, from the current year's Reserve to admit of the prosecution of the work.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 268. Read the following letter from Lieutenant-Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 5th December 1863, No. 3,829 :—

SIR,

1. With reference to the Proceedings of Government No. 3,160, dated 29th October 1863, I have the honor to forward herewith Plans of the Beer and Arrack godowns at Saint Thomas' Mount and Poonamallee. There is no Beer or Arrack godown at Palaveram, the liquor being kept in a part of the Barracks partitioned off for the purpose.

3 Plans.

2. At the Presidency, the Executive Engineer, Captain Prendergast, reports that there are no Rum and Beer godowns in the Southern Range, and from papers furnished by the Assistant Engineer, Fort Range, I find that only a small quantity of Arrack and Malt liquor is kept in the Fort to meet monthly issues to the details, and which is stored in a building belonging to the Commissariat Department.

3. I have not yet received any information on the subject from the Assistant Engineer, Northern Range, Presidency, but his attention has been directed to the subject ; and as soon as any Plans are furnished by him, they shall be sent on to Government.

No. 269. ORDER THEREON, 15th January 1864, No. 132.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 270. Read the following letter from Captain E. A. FOORD, R. E., Superintending Engineer, 6th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Tanjore, 22nd December 1863, No. 1,414 :—

SIR,

With reference to my letter No. 620 of the 16th September last, I have the honor to forward for sanction and entry in the Budget of 1864-65, the revised Estimate amounting to Rupees 10,420 for constructing the road from the north bank of the Coleroon river to Woodiarpolliem in lieu of one of the same amount sanctioned by Government in November 1857. The full amount of the Estimate has been entered in the Budget for expenditure on this work in the ensuing year. The Estimate has been carefully revised by Supervisor Balasoondara Mudali.

1 Estimate.

No. 27[illegible] ORDER THEREON, 15th January 1864, No. 133.

1. [illegible] Government sanction for entry in the Budget of 1864-65, the revised Estimate of Rupees [illegible] submitted with this letter for a new road from the north bank of the Coleroon river to W[illegible]polliem.

2. It is observed that this order cancels the sanction accorded in Minutes of Consultation No. 2,148, dated 23rd November 1857, to an Estimate of corresponding amount for the same work.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 272. Read the following letter from Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Coonoor, 31st December 1863, No. 279 :—

SIR,

I have the honor to forward the Plan and Estimate of the Cuddumbella bridge, called for in your Memorandum No. 101 of 22nd December, without waiting for that of the Charmady bridge not yet received from Canara, but regarding which Lieutenant Filgate's attention has been called to Government Order No. 2,419 of 25th August. The amount of the Estimate is Rupees 6,139, which I request may be allotted from the Reserve of the current year as promised in paragraph 2 of the above Order depending on which preparations for the work have been some time in hand.

Enclosures 2.

No. 273. ORDER THEREON, 15th January 1864, No. 134.

The Estimate of Rupees 6,139 submitted with this letter is sanctioned from the Reserve Fund.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 274. Read the following Proceedings of the Madras Governmentn in the Public Department :—

Sanctioning the acceptance by the Committee People's Park, of Swamy Chetty's offer of his land, viz., forty grounds in the Park for ninety grounds of waste land on the east side of Cochrane's Canal as it now stands with the debris upon it. } (Here enter 8th January 1864, No. 19.)

No. 275. ORDER THEREON, 15th January 1864, No. 135.

Communicated to the Superintending Engineer, 4th Division.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 276. Read the following Proceedings of the Madras Government in the Military Department :—

Requesting that the necessary steps may be taken to facilitate the water supply for the Detachment at Calicut, Malabar District, and diminish the present expenditure on account of Puckallies. } (Here enter 8th January 1864, No. 68.)

No. 277. ORDER THEREON, 15th January 1864, No. 136.

Communicated to the Superintending Engineer, 7th Division, for *early* report as to the measures which should, in his opinion, be adopted to improve the supply of water for the use of the Troops at Calicut, and for the submission of the necessary Estimates.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 278. Read the following Proceedings of the Madras Government in the Revenue Department :—

Stating that the verandah along the west front of the Chepauk buildings occupied by the Board of Revenue will still be requred, and that the Board will be requested to give their opinion on the subject.	(Here enter 9th January 1864, No. 38.)

No. 279. ORDER THEREON, 15th January 1864, No. 137.

Communicated to the Superintending Engineer, 4th Division.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 280. Read the following letter from G. S. FORBES, Esq., Collector of Ganjam, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Russelcondah, 17th December 1863, No. 180 :—

SIR,

With reference to the Order of Government No. 3,536 of the 2nd instant, I have the honor to observe that as the sum of 2,700 Rupees spent by me in the Khond Malias was formally placed at my disposal by the Department Public Works, under orders from Government, I am not aware that any further adjustment is required.

No. 281. ORDER THEREON, 15th January 1864, No. 138.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 282. Read the following Proceedings of the Madras Government in the Revenue Department :—

Approving of the proposal of the Collector of Tanjore for meeting, from the Chuttrum funds, the Estimate of Rupees 10,780, for raising a dam across the Pamaniar, and constructing some sluices and embankments for the purpose of bringing under cultivation about 200 Vaylies of land attached to the Chuttrum of Rajamuttum, in the Puttoocottah Tàluq.	(Here enter 8th January 1864, No. 28.)

No. 283. ORDER THEREON, 15th January 1864, No. 139.

Communicated to the Superintending Engineer, 6th Division, for information and guidance.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 284. Read the following Proceedings of the Madras Government in the Military Department :—

Approving, for [illegible]tion, of the Estimate of Rupees 5,880 for two wash-hous[illegible] for the D. Battery, Royal Horse Brigade stationed at Bellary.	(Here enter 9th January 1864, No. 92.)

N[illegible] 285. ORDER THEREON, 15th January 1864, No. 140.

1. Communicated to the Superintending Engineer, 3rd Division.

2. The cost of the works, viz., Rupees 5,880, will be met from the Reserve Fund of the current year.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 286. Read the following Proceedings of the Madras Government in the Revenue Department, dated 9th January 1864, No. 48 :—

Read the following letter from the Superintending Engineer, 4th Division.

Submits for sanction Plans and Estimates for constructing a new Stamp Office, and for certain alterations to the sheds in the Commissariat Timber Depôt. } (Here enter 5th January 1864, No. 4,357.)

1. Sanctioned.

2. The new building should be constructed as soon as possible, as the present Office is both inconvenient and unsafe.

3. The railings should be continued as marked in the Plan, and an outer gate may be erected.

(True Extract.)

(Signed) J. D. SIM,
Secretary to Government.

No. 287. ORDER THEREON, 15th January 1864, No. 141.

1. Communicated to the Superintending Engineer, 4th Division.

2. The Estimates* will be entered in the Budget for 1864-65.

3. Colonel Boileau's particular attention will be requested to the orders contained in paragraph 3.

* Rupees 25,200.
" 3,680.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 288. Read the following Proceedings of the Madras Government in the Revenue Department :—

Sanctioning the Estimate of Rupees 720 for converting one of the four public buildings at Tindivanum into a permanent Office for the Head Assistant Collector of the South Arcot District. } (Here enter 8th January 1864, No. 32.)

No. 289. ORDER THEREON, 15th January 1864, No. 142.

1. Communicated to the Superintending Engineer, 5th Division, for information and guidance.

2. The cost* of the work will be met from the current year's Reserve.

* Rupees 720.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 290. Read the following Proceedings of the Madras Government in the Military Department :—

Approving, for entry in the Budget of 1864-65, of the Estimates for certain Military buildings in Trichinopoly, and stating that the remarks of the Quarter Master General regarding the Family Quarters for the Battery of Artillery at that station will receive attention in the Department Public Works. } (Here enter 8th January 1864, No. 76.)

No. 291. ORDER THEREON, 15th January 1864, No. 143.

1. Communicated to the Superintending Engineer, 6th Division.

2. With reference to paragraph 2, Captain Bean's particular attention will be directed to the Orders marginally noted, and he will be requested to submit, if necessary, a revised Estimate for the Family Quarters for the sanction of Government.

No. 3,755, dated 18th December 1863.

3. The Estimates now approved will be entered in the Budget for 1864-65.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 292. Read the following letter from Lieutenant-Colonel J. C. ANDERSON, R. E., Superintending Engineer, 2nd Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Masulipatam, 21st December 1863, No. 37:—

SIR,

Sanctioned in G. O. No. 3,454, dated 25th November 1863, excavating a Channel from Chabrole tank for irrigating certain lands in Chabrole and Mutoonoor, Rupees 2,630.
Do. an irrigation Channel from Moducoor lands Rs. 3,358.
Sanctioned in G. O. No. 3,248, dated 9th November 1863, raising a portion of coast road through Boodam tank and rice fields and constructing a bridge of two vents of twelve feet span for passing the supply of Allur tank Rupees 4,580.
Bridge across the drainage Channel from Sandole tank on road from Guntoor to Nizampatam Rupees 1,170.
Sanctioned in G. O. No. 3,469 dated 26th November 1863, enlarging Salt platform No. 7 at China Ganjam, Rupees 3,000.
Collection of materials for Chabrole Bridge, Estimate Rupees 11,900, sanctioned in G. O. No. 3,381, dated 19th November 1863.

1. I have the honor to report that two Contractors have offered to carry out, during the current year, the works as per margin, which have been sanctioned for entry in the Budget of 1864-65. They do not demand any advances, or any payment at all until May; but only require a certificate that they will be paid up in that month. I beg to be informed if I am at liberty to accept this proposal.

2. It would be advantageous to Government, particularly as regards the irrigation Channels, which could not otherwise be completed in time to be of use during the ensuing irrigation season.

No. 293. ORDER THEREON, 15th January 1864, No. 144.

The Governor in Council is precluded from sanctioning the commencement of the works referred to in the current official year under the restrictions imposed by the Government of India in its orders communicated in the Proceedings of this Government, No. 3,523, dated 1st December 1863, but funds for their prosecution will be made available after 1st May next either from the regular Budget allotment or from the Reserve.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 294. Read the following letter from Lieutenant-Colonel E. HEMERY, R. E., Superintending Engineer, 3rd Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Cuddapah, 23rd December 1863, No. 247:—

SIR,

1. Among the outstanding advances on the expenditure incurred on the Kunder bridge in the Nundial Range, Kurnool District, there is an item amounting to Rupees 100 on account of an Overseer's shed.

2. This sum was advanced in 1862-63 by Mr. Paynter with the sanction of Captain Beatty, late Acting District Engineer, but the transaction was altogether irregular, and ought to have been adjusted when the Bills for expenditure in the last official year were prepared.

3. Government sanctioned Rupees 890 at different times for Overseer's shed in the Kurnool District as follows:—

	Rs.
18th July 1856, Order No. 1,207...	500
18th September 1856, „ „ 1,682...	390
Total...	890

4. The expenditure accounted for in Bills up to the 30th April 1863 was Rupees 779-7-1, leaving a balance of Rupees 110-8-11, or more than sufficient to cover the amount advanced as above stated, I therefore have the honor to request Government will be pleased to sanction Rupees 100 from the Reserve Fund to enable me to adjust the accounts of the Kunder bridge expenditure.

No. 295. ORDER THEREON, 15th January 1864, No. 145.

Sanctioned as recommended.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 296. Read the following letter from Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Meylore, 17th December 1863, No. 1,531 :—

SIR,

1. In the amended Local Fund Budget forwarded by me on the 5th August 1863, No. 257, it was proposed to expend Rupees 1,000 on the road from Pereacolum to the Pulny Ghát, the Collector points out that this piece is in fair order now, while the part between Pereacolum and Pallaputty on the same road continued to Madura is in very bad condition.

2. I beg that I may be allowed to transfer the amount from the part north of Pereacolum to that east of it, on which Rupees 1,000 has been already sanctioned, but which is wholly insufficient for the repairs required.

No. 297. ORDER THEREON, 15th January 1864, No. 146.

1. In the amended Local Fund Budget for the Madura District sanctioned in G. O. No. 2,397, dated 24th August 1863, the following entry is observed :—

Road from Pallaputty to Pereacolum and the Ghát, Rupees 2,000.

2. The Government understands from the letter recorded above that it was the intention of the Superintending Engineer to expend Rupees 1,000 on the portion of road between Pallaputty and Pereacolum, and an equal amount on the road from Pereacolum to the Ghát.

3. Captain Moberly now represents that the road between Pereacolum and the Ghát is in fair order, and requests sanction to expend the entire sum of Rupees 2,000 abovementioned on the portion of road between Pallaputty and Pereacolum which is in bad "condition." The Governor in Council accedes to this recommendation, but in doing so would again draw the attention of that Officer to the necessity for submitting his recommendations in a clear and complete form. In the present case the Superintending Engineer should have mentioned that the two sums referred to in his letter formed parts of the grant for the road noted in the margin.

Road from Pallaputty to Pereacolum and the Ghát.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 298. Read the following letter from Captain E. A. FOORD, R. E., Superintending Engineer, 6th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Tanjore, 16th November 1863, No. 1,130 :—

SIR,

With reference to Order of Government No. 3,160 of the 29th October, I have the honor to report that the Beer and Rum are stored by the Commissariat Department in different parts of the town of Trichinopoly in old native-built granaries. The buildings are far apart from each other, and are reported to be very inconveniently arranged, and to possess no points worthy of notice in the preparations of standard Plans.

No. 299. ORDER THEREON, 15th January 1864, No. 147.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 300. Read the following letter from Lieutenant-Colonel H. W. HITCHINS, R. E., Superintending Engineer, 5th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Salem, 23rd December 1863, No. 1,673 :—

SIR,

With reference to the Proceedings of Government dated the 29th October last, No. 3,160, I have the honor to submit herewith the accompanying Plan of the best Commissariat godowns at Bangalore, together with a copy of a letter dated 18th November 1863, No. 689, from the Acting Assistant Commissary General at that station to the Deputy Assistant Quarter Master General, Mysore Division, giving a description of the rooms and Beer godowns in use with the Commissariat Department.

1 Plan.
1 Copy of a letter.

No. 301. ORDER THEREON, 15th January 1864, No. 148.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 302. Read the following letter from Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Coonoor, 2nd January 1864, No. 282 :—

SIR,

1. I have the honor to transmit an original letter* from the Executive Engineer in charge of Cannanore Range, accounting for an increased rate of 50 per cent. on the cost of laterite stone for the Military buildings at Cannanore, of which and of his immediate action in the case I have approved.

* No. 331, dated 29th December 1863.

2. Captain Vertue has been requested to submit at his earliest convenience revised Estimates for all works that will be affected by the increase in question.

No. 303. ORDER THEREON, 15th January 1864, No. 149.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 304. Read the following letter from Captain O. W. S. CHAMBERS, R. E., Superintending Engineer, 1st Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Waltair, 17th December 1863, No. 1,972 :—

SIR,

1 Bill.
1 Estimate.
1 Letter.

1. I do myself the honor of requesting authority from Government to appropriate Rupees 206-8-5 from the Repair Funds of the Godavery District, sub-head Accommodation for Troops, for the payment of the accompanying Bill for cleaning two Brickmaking machines, last used for making bricks for the Sapper Barracks at Dowlaishweram.

2. By Major Stoddard's explanatory letter* which accompanies this, and by Mr. E. Merrall's Estimate, also attached, it appears that in September 1862 the then District Engineer under the powers vested in him by the Chief Engineer's Circular No. 72 of 16th January 1862, being able to spend 100 Rupees on the repair of any machine without submitting an Estimate, ordered the two brick machines in question to be put in order at a cost of 90 Rupees each, their value being each 944 Rupees.

* No. 234 of 30th November 1863.

3. On execution, the repairs came to somewhat more than was anticipated, hence this explanation.

No. 305. ORDER THEREON, 15th January 1864, No. 150.

1. The Government sanctions the Bill submitted with this letter amounting to Rupees 206-8-5, and authorizes the amount being met from the sum set apart for " Stores."

2. The Superintending Engineer will be requested to report the manner in which it is proposed to utilize the Brickmaking Machines which have now been repaired. Captain Chambers will also report whether the machines can be advantageously worked in the Godavery or whether they can be spared for use in any other District in which they may be more in demand.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 306. Read the following Proceedings of the Madras Government in the Military Department :—

Approving of the Estimate of Rupees 146 for correcting the Lightning Conductor of the Magazine, at Mangalore, South Canara District. (Here enter 9th January 1864, No. 94.)

No 307. ORDER THEREON, 15th January 1864, No. 151.

1. Communicated to the Superintending Engineer, 7th Division.

2. The cost* of the work will be met from the current year's Reserve.

* Rupees 146.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 308. Read the following letter from Lieutenant-Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 8th January 1864, No. 4,413 :—

SIR,

1 Sketch.
1 Letter dated 4th January 1864.

1. In accordance with your verbal instructions conveyed to me on the evening of the 2nd instant (and in anticipation of the receipt of the Order No. 13, dated 4th instant), I have the honor to report that I have conferred with Sir Macdonald Stephenson on subjects connected with utilizing the Pier.

2. As, however, that gentleman has kindly put upon paper his views, I beg to forward the same as expressed in his original letter (and sketch) to my address, dated 4th instant.

3. My want of experience in floating breakwaters does not warrant me in passing an opinion that can be considered as of any value in advising Government as to constructing such a frame work as is proposed by Sir Macdonald Stephenson, who, it will be observed, himself looks upon the matter quite in an experimental light. Certainly I do not think that such an experiment is at all likely to answer.

4. A recent writer observes with regard to this subject : "There have been submitted to "the public of late years a great number of schemes for forming floating breakwaters, and wave-"screens, or for employing some more economical system than that of creating as it were, artificial "islands. But the marked failures of these ingenious contrivances have been so notorious, that "it would be unnecessary here to discuss any of them."

5. Sir Macdonald Stephenson was probably not aware when writing about the ladders that those now in use are merely temporary, and that the new ladders are to be some feet longer. Practically, however, it is not found that even now boats get under the foot of the ladder.

From Sir MACDONALD STEPHENSON, Civil Engineer, to Lieutenant-Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, dated Madras, 4th January 1864.

SIR,

1. As my stay in Madras is short, I send you the suggestions which occur to me as likely to assist in further utilizing your Pier, and which appear to me to deserve to be tried.

2. The importance of obtaining comparatively smooth water, at all times, for embarking and landing, will readily be admitted, as until that can be secured, the public are deprived of great part of the practical value and utility of the Pier, and the Government returns are restricted in consequence. The course I would suggest, is based upon the conviction, that the object can be obtained, but that the precise means cannot be predicated from analogy, or without previous experiment that the experiment can be tried at a moderate cost, and that if successful, the end attained will fully justify the expenditure.

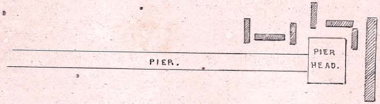
3. The experimental operations, with which alone I need now occupy your time, consist in constructing two descriptions of floating timber breakwater, to be chain-moored, in such positions and at such angles to the surf, and to the direction of the north-east monsoon, as experiment may decide, with a buoy to each mooring chain, to regulate the rise and fall. The mooring chains, anchors, grapnells, screw-moorings, bolts, &c., can probably be borrowed from Government stores, and the timber can be disposed of to the Railway Companies for sleepers, after being used.

4. The forms of breakwater are two-fold, the one used parallel and at right angles to the Pier, and at a distance to allow boats to lay inside, to be of 20 more or less balk-timbers of 20, 25 or 30 feet long, as most readily procured, and between each balk, two circular blocks of wood bound with sheet or loop iron and two mooring chains passing from end to end, through the timber and the blocks, by the buoys to the moorings. If the balks are of 2 feet section and 30 feet long the timber required will be about 30 feet for every foot run, exclusive of the blocks.

5. The other break-water for the face of the Pier head to be constructed in sections each of 11 rows of balk-timber, placed vertically, the first or middle row of 30 feet the second row on each side of 25 feet, the third 20 feet, the fourth 15 feet, the fifth 10 feet, and the sixth 5 feet, in length, with longitudinal balks running between each vertical timber the entire length, and in both directions bolted and moored.

6. About 150 feet of timber will be required to the foot run. The dimensions, number, and positions of these frames must be regulated, according to circumstances, by the Officer in charge of the experiment. Base about 40′ × 30.

7. The position in which the first trial should be made, appears to me to be as under:



8. I would suggest that all the ladders in present use at the Pier should have the two sides prolonged several feet and joined by a curved end, by which means the risks now incurred of boats getting under the ladder and being swamped will be avoided.

9. I will send you a sketch of the breakwaters, but you will scarcely need it, with the above description, brief as it is.

No. 309. ORDER THEREON, 15th January 1864, No. 152.

Referred, through the Marine Department, for the opinion of the Superintendent of Marine.

(Signed) CHARLES A. ORR, Colonel, R. E.;
Secretary to Government.

Read the following papers:—

No. 310. From Lieutenant-Colonel E. HEMERY, R. E., Superintending Engineer, 3rd Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Cuddapah, 2nd December 1863, No. 225.

SIR,

1. With reference to the Order of Government, No. 3,160, dated 29th October 1863, I have the honor herewith to forward a Plan of the Arrack and Beer godowns at Bellary.

1 Plan.

2. Each Arrack godown is capable of holding five Arrack vats containing about 10,500 gallons or six months supply for 1,200 men.

No. 311. Memorandum from the Superintending Engineer, 4th Division, dated Madras, 16th December 1863, No. 4,071.

From Lieutenant C. BOWEN, R. E., Acting Assistant Engineer, Presidency Northern Range, to Lieutenant-Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, dated Fort Saint George, 12th December 1863, No. 332.

SIR,

In reply to your Memorandum of 3rd ultimo, No. 3,199, calling for Plans and information relative to the stowage of Rum and Beer at the Presidency, the accompanying Plan is now forwarded herewith, showing the buildings at present used for this purpose.

1. Arrack is stowed in two buildings, which contain each when full eighty-three large vats holding 400,000 gallons, sufficient for one year's consumption and two years' stock for the whole Madras Army.

2. These godowns are amply sufficient, as the largest number of hogsheads stored at the Presidency at any one time during the year does not exceed 30,000 hogsheads.

3. These buildings are well adapted for the storeage of Arrack, but they require to be paved or floored in some kind of way.

4. There is at the Presidency but one Malt liquor godown, which holds only 460 hogsheads, the supply for about 250 men for one year.

5. The remaining number of hogsheads required at the Presidency is at present stowed in the Granary, and in open sheds at the Timber Depot not at all adapted for safe stowage.

6. It must be borne in mind that many of the Stations in the Madras Presidency are supplied with Beer direct from Home, and therefore stowage space for Beer is required for only a limited portion of the Madras Army.

7. The present Beer godown is, however, much too small for that purpose, but the same plan of godown on a larger scale and holding in the same building the total number of hogsheads requiring storage space would answer very well.

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1 Plan. Submitted to Government in continuation of the letter from this Office, No. 3,829, dated 5th December 1863.

(Signed) A. J. M. BOILEAU, Lieut.-Colonel, R. E.,
Superintending Engineer, 4th Division.

No. 312. From Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Canoth, 24th November 1863, No. 244.

SIR,

1. I have the honor to forward herewith a Plan of the Commissariat godown at Wellington, submitted by Major Farewell, in conformity with Government Order No. 3,160 of 29th October, showing the arrangement of the stowage of the barrels of Arrack and Beer. The Barracks completed at Wellington being calculated to hold 800 Europeans, the stowage room afforded by these godowns for 18 pipes of Arrack and 172 hogsheads of Beer, is reported as sufficient, with reference to the time occupied in transit of stores from the head quarters depot at Madras.

2. I do not forward Mr. Sub-Engineer Bailey's Plan of the Cannanore Store-rooms, the building being a lined one, and not planned for the purpose. They hold 100 pipes of Arrack and 230 hogsheads of Malt liquor, which is short by 670 hogsheads of the annual supply of the latter, received direct from England at once. The surplus is at present stored in Casemates in the Fort reported as very damp in the monsoon and not fit for the purpose.

No. 313. ORDER THEREON, 15th January 1864, No. 153.

Ordered that the following letter be sent :—

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Ordered that the following letter be despatched.

No. 314. From Colonel C. A. ORR, R. E., Secretary to the Government of Fort Saint George, Public Works Department, to the Secretary to the Government of India, P. W. D., dated 15th January 1864, No. 154.

SIR,

With reference to Circular No. 53 G. G., dated 29th September 1863, I am directed by the Honorable the Governor in Council to submit the accompanying Plans of the three most approved existing Rum and Beer godowns in this Presidency, showing the arrangements of the stowage of the barrels, the number of barrels each building is capable of containing, and the strength of the force for which each building is calculated to contain a sufficient supply.

No. 315. Read the following:—

ROYAL ENGINEERS.

No. 7,285.
36

It is requested that the above heading may be *quoted* in subsequent correspondence, on this subject, with this Department.

HORSE GUARDS, S. W.
3rd December 1863.

SIR,

I have the honor, by desire of His Royal Highness the Field Marshal Commanding in Chief, to inform you, that the Officer of Royal Engineers, named in the margin, will embark at Southampton on board the "Ripon" for duty in the Madras Presidency, and to request that you will be pleased to cause the enclosed documents to be completed, signed by Lieutenant Harvey, and returned to this Office as early as possible after the arrival of that Officer in Madras.

Lieutenant E. Harvey.

I have the honor, &c.,
(Signed) F. E. CHAPMAN, Colonel,
Deputy Adjutant General, Royal Engineers.

To the Secretary Public Works Department, Madras Presidency.

No. 316. ORDER THEREON, 15th January 1864, No. 155.

Ordered that the following letter be sent:—

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Ordered that the following letter be despatched.

No. 317. From Colonel C. A. ORR, R. E., Secretary to the Government of Fort Saint George, Public Works Department, to the Deputy Adjutant General, Royal Engineers, London, dated 15th January 1864, 156.

SIR,

I have the honor to re-transmit the Return forwarded with your letter marginally noted, and to state that the information required has been duly entered therein.

No. 7,285/36, dated 3rd December 1863.

No. 318. Read the following letter from Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Thoovaruncooroochy, 5th January 1864, No. 1,601:—

SIR,

1. I have the honor to request further instructions as to Government Order No. 3,810 of the 23rd December, as I know not from what source Mr. Wait's salary is to be continued, or if it is intended that his services should be entirely dispensed with.

2. I have already brought to the notice of Government that his salary forms a very heavy charge to the Pambem works, and uselessly now, as the steam dredge is not at work.

No. 319. ORDER THEREON, 15th January 1864, No. 157.

1. The Superintending Engineer, 8th Division, should be aware that Mr. Wait's salary does not form a charge against the Estimate for the Paumbem work, but is met from Part III of the Public Works Budget under the Proceedings of Government No. 1,646, dated 23rd June 1863.

2. Captain Moberly will be requested to report distinctly, with reference to the Orders marginally noted, whether Mr. Wait's services are now required at Paumbem, for if not, he might be employed with advantage in the Coimbatore District.

No. 33, 6th January 1864.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 320. Read the following letter from Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Cottamputty, 6th January 1864, No. 1,608 :—

SIR,

1. Referring to my No. 1,585 of 23rd December 1863, I have the honor to forward an application from the Clerk and Examiner in my Office, who was formerly the head of the District Office in Tinnevelly and of the Civil Engineer's Office, 8th Division, and trust that the Government will be pleased to consider his claims specially.

1 Petition.

2. He has had more practical experience than most of the members of the Executive Department in this Division, having constantly accompanied Colonel Horsley and the other Civil Engineers on their tours; it is notorious in the Division that he was not entered among the executives in the organization of 1857, because he was so useful in the Office that the Civil Engineer was anxious to avoid his loss, his subordinates in the Office have consequently passed him in promotion.

No. 321. ORDER THEREON, 15th January 1864, No. 158.

With reference to paragraph 2 of G. O. No. 103, dated 12th January 1864, the Superintending Engineer, 8th Division, is authorized to employ Vyapuri Pillay as a Táluq Overseer until the services of a passed Candidate are available.

Vice Mr. Telford resigned.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 322. Read the following letter from Lieutenant-Colonel E. HEMERY, R. E., Superintending Engineer, 3rd Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Cuddapah, 6th January 1864, No. 251 :—

SIR,

1. With reference to Order of Government No. 3,623, dated 9th December 1863, I have the honor herewith to enclose the proceedings and verdict of the Court of Inquest, held on the body of the cooly who met his death as stated in my letter No. 223, dated 1st idem.

Enclosures 2.

2. There seems no reason whatever to doubt the correctness of the statement made by Mr. Táluq Overseer Connors, to the effect that the man's death was caused entirely by his disregard of positive orders not to dig gravel in the identical pit where the accident occurred.

No. 323. ORDER THEREON, 16th January 1864, No. 159.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 324. Read the following letter from Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Coonoor, 24th December 1863, No. 272 :—

SIR,

With reference to paragraph 9 of my letter No. 83 of 28th July, reporting the destruction of the superstructure of the Irritytodoo bridge on Trunk Road No. 4, in Malabar District, I have the honor to submit for sanction a Plan and Estimate for its restoration at a cost of Rupees 16,800. My entry in Budget List of 1864-65 for this work amounted only to Rupees 10,000 ; but the accompanying original letter* from Mr. Sub-Engineer Bailey will account for the increase, by the necessity which he has reported for the addition of two extra spans of 30 feet each, and the construction of new wing-walls, in recommending which I have no doubt he is right. It would be an advantage, were funds available, to have the timber and stone for the work cut during the current season ; and I dare say the odd Rupees 6,800 might be so spent. If not otherwise procurable, the rent of the Ferry established in lieu of the ruined bridge, and the toll collections on the road, might be laid under contribution to furnish as much as could be spent this year.

Enclosures 3.

* No. 308, dated 12th December 1863.

No. 325. ORDER THEREON, 16th January 1864, No. 160.

1. The Superintending Engineer, 7th Division, submits a Plan and Estimate for the restoration of the timber bridge over the Irrity river, in the Malabar District, the superstructure of which was completely carried away during the floods in June last. The accident was apparently caused by the want of sufficient water-way ; and the Plan now submitted provides for raising the piers 8 feet, and for the addition of two extra spans of 30 feet each.

2. The Estimate amounts to Rupees 16,800, and of this sum Colonel Walker proposes to spend Rupees 6,800 during the current official year, in collecting timber and stone, and making preparations for the work. The balance, Rupees 10,000, he intends to spend during 1864-65.

3. Under the circumstances, the Government approve of Colonel Walker's proposals, and sanction the Estimate now before them. A sum of Rupees 6,800 will be at once placed at his disposal from the Reserve Fund of the current year : and the balance of the Estimate, Rupees 10,000, will be entered in the Budget of 1864-65.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 326. Read the following Endorsement of the Controller and Auditor of Public Works Accounts, dated Madras, 9th January 1864, No. 2,223 :—

From Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Lieutenant-Colonel C. V. WILKIESON, R. E., Controller and Auditor of Public Works Accounts, dated Coonoor, 5th January 1864, No. 285.

SIR,

1. Your letter No. 2,134, of 21st December.

2. Memorandum No. 1,627 of 6th October was received by me on 9th idem, and the returns were ready for my signature on the 16th of the same month, as appears by contemporary dockets on said Memorandum.

3. Your first call was received on the 14th November, and that it was attended to as regards the Coimbatore District, is proved by your Memorandums No. 1,989, of 2nd December and No. 2,080 of 11th December ; I cannot account for your non-receipt of the copies of the Malabar and Canara returns.

4. Your second call received at Coimbatore on 14th December was attended to by despatch to me on the same date of copy of the Canara return, and of the Malabar return on the 15th. As I returned from a long tour, to Coimbatore, on the latter date, I missed the Malabar return and had to wait till the 18th to sign and post them both.

5. I can fix no blame on any individuals of our office. If any one is to be blamed, it must be myself. The readiest means of avoiding these delays in future is, that of corresponding direct in such matters with my Manager, permission of Government being obtained for the purpose. My other work precludes my paying the close attention required by such calls (without which I never like to sign a paper), except at the cost of liability to delay.

1 Letter from the Superintending Engineer, 7th Division, No. 285, dated 5th January 1864.

Submitted for the Orders of Government, with reference to paragraph 1 of letter No. 2,151, dated 23rd December 1863, from this office.

(Signed) C. V. WILKIESON, Lieut.-Colonel, R. E.,
Controller and Auditor of P. W. Accounts.

No. 327. ORDER THEREON, 16th January 1864, No. 161.

The Governor in Council is unable to sanction the adoption of the course recommended in the last paragraph of the letter from the Superintending Engineer, 7th Division, submitted with the endorsement recorded above, and will rely upon Lieutenant Colonel Walker's best exertions to prevent delays in the submission of periodical returns to the Controller and Auditor of Public Works Accounts.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 328. Read the following letter from Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, dated Coonoor, 22nd December 1863, No. 268 :—

SIR,

Having completed a tour of the Wainád and subsequently consulted with the Collector at Calicut, I am in a position to report on the subject of the allotment of the sums of Rupees 25,000 from General Funds and Rupees 13,128 from Income Tax Funds made available by Government Orders No. 3,407 of 21st November and No. 3,741 of 17th December 1863. These sums Mr. Ballard and myself desire to have expended as follows, viz. :—

General Funds.

		RS.
1.	Tambercherry Ghát	12,000
2.	Approach to head of do. from Culpetta	4,000
3.	Do. to head of do. from Terriote	3,000
4.	Road from Goodaloor towards Sultan's Battery	6,000
	Total ...	25,000

Income Tax Funds.

		RS.
1.	Removal of rocky obstructions to cart traffic on the new Carcoor Ghát to a width of 12 feet throughout	6,000
2.	Bridging three Nullahs on its approach from above, and continuing it, 12 feet wide, to join the Mysore high road at Tippacadoo ...	4,000
3.	Laying bridge foundations below the Ghát, and continuing the trace of the road from Mambat to Eddwana and Areacode ...	3,128
	Total ...	13,128

I append a separate report on the Wainád communications, in which good cause will be shown for these allotments, and any further wants specified. The reduction of the amount of Income Tax Funds available has been a great vexation to me, as preventing any allotment of funds to the Vitla and Hoosdroog road in Canara on which I know that the means existed of laying out to advantage whatever sum might have been placed at our disposal.

P. S.—Letter forwarded for Orders of Government sanctioning the allotments of funds. Report will follow.

No. 329. ORDER THEREON, 16th January 1864, No. 162.

1. The Governor in Council sanctions the appropriations recommended in this letter. Colonel Walker will, however, be requested to expedite the submission* of Plans and Estimates for the improvement of the line from the Carcoor Ghât to the Mysore frontier on which it is now proposed to expend a sum of Rupees 10,000. It is observed that the continuation of the line from Mambat to Areacode was strongly advocated by the Collector in his letters recorded in Proceedings of 14th July 1863, No. 1,878, and 26th October 1863, No. 3,118. An Estimate for the work should be submitted at an early date. Meanwhile the grant of Rupees 3,128 now sanctioned may be laid out to the best advantage.

* See Superintending Engineer's letter, dated 21st October 1863, and recorded in Proceedings, 14th November 1863, No. 5,414.

2. The Superintending Engineer will provide for additional funds being allotted for the Vitla and Hoosdroog road in the Statement called for in Proceedings, dated 14th December 1863, No. 3,681.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 330. Read the following Proceedings of the Madras Government in the Military Department:—

Requesting that a sum of Rupees 1,30,800 may be entered in the Budget of 1864-65 on account of a grand Magazine, &c., at Trichinopoly, and concurring with the Commander-in-Chief in the views expressed by him on the subject of the sites for the new Barracks for a wing of European Infantry and the removal of the Parcherry and other buildings at that station. } (Here enter 8th January 1864, No. 75.)

No. 331. ORDER THEREON, 16th January 1864, No. 163.

Communicated to the Superintending Engineer, 6th Division, for information and guidance.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 332. Read the following letter from Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Divison, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Thovaruncooroochy, 5th January 1864, No. 1,600 :—

SIR,

1. Referring to Government Order, No. 3,808 of the 23rd ultimo, I have the honor to observe that Mr. Levinge has in his letter No. 263, to the Secretary Revenue Board unfairly thrown on me the responsibility of selecting Tondy as the terminus of a salt road.

2. He asserts truly that I am new to the District, and I am therefore at a loss to understand how I have opposed the views of his and my predecessors who must have laid out the road to Tondy some years ago, and approved the Estimates framed by Captain Ryves in June, September and November 1861, for their improvement. There is also a maintenance grant for this road.

3. My only reason for selecting this road first was that it had been already begun by Mr. Levinge's and my predecessors, and that I considered it sound policy to complete one road before I began another. In this I am supported I believe by the opinion of Government; further I beg to observe that I have but forwarded the opinion of my predecessor in office, who considered the construction of the direct road viâ Ramnad as impossible except at an enormous cost.

4. In paragraph 9 of his letter Mr. Levinge acknowledges that Tondy is the second of his ports. I conclude therefore that I am not far wrong in supposing that there were good grounds for the original selection of Tondy in preference to Vuttanam a few miles distant.

5. I am not aware, that I ever proposed to give up the line by Nattam to Dindigul. I said that if it were worth making as a salt line, it would be better economy to take it from Tripattoor to the Tondy road at Terruvampett so as to avoid the heavy cost of 2 roads near one another across the black cotton and soil near the coast.

6. I should not for one moment have hesitated on the subject had the road been already made, as the Revenue Board in the 3rd paragraph of their endorsement appear to believe, when they urge the repair and maintenance of the road.

7. The road is not in existence, and will cost on an average Rupees 2,000 per mile to construct. The Government are I believe not aware of this; and I beg their re-consideration of the subject with this further information that probably Rupees 1,80,000 will be needed before there is any thing that I can be fairly called on to repair and maintain, and that this expenditure will only be made about the time that the great Southern of India Railway will be open.

8. This argument does not apply to the road from Ramnad to Madura, which is a main line independent of the salt traffic; but Rupees 2,00,000 will be required for its construction, and if the Government agree with Mr. Levinge, it will be perhaps advisable to stop the Shevagunga and Tondy road and commence the other.

9. Estimates shall be prepared for making all the lines named by Government; but I beg to point out that in the allotment this enormous amount of work is thrown upon a single Supervisor who has the general charge of the Zemindaries.

No. 333. ORDER THEREON, 16th January 1864, No. 164.

Recorded with reference to G. O. No. 53, dated 7th Jauuary 1864.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 334. Read the following letter from C. MURRAY, Esq., Acting Agent, Indian Tramway Company (Limited), to the Honorable A. J. ARBUTHNOT, Chief Secretary to Government, Fort Saint George, dated Madras — October 1863:—

SIR,

1. With reference to the Proceedings of Government, No. 292, dated 3rd June 1862, I have the honor to send herewith a Survey, Plan and Section of the road from Arconum to Conjeveram, and have to request His Excellency the Governor in Council will have the goodness to issue instructions that the Indian Tramway Company may be allowed to lay their rails on the road. I may mention that the road from the crossing at Wallajahpett road to Conjeveram is not made or metalled, and I have the honor further to beg that His Excellency will be so good as to postpone any contemplated measures for completing it.

2. The Resident Engineer of the Company, G. Hardinge, Esq., has arrived, and active operations will be commenced so soon as the weather permits.

3. It is intended to work this line with Steam engines which have been ordered out from England, and it is believed they are now on the way.

4. I beg to state that no one in this Company has a Power of Attorney from the Company, but orders have been received to commence this line at once, and I believe the Power of Attorney will shortly be received; and it is hoped that the fact of the Company being about to lay out money on the line will be a sufficient guarantee that the Company is in existence and means to carry out the undertaking.

Transferred to the Public Works Department, with copies of the previous correspondence as per annexed Memorandum:—

Proceedings	3rd	June	1862,	No.	292.
,,	25th	August	,,	,,	459.
,,	24th	September	,,	,,	530.
,,	25th	October	,,	,,	596.
,,	29th	,,	,,	,,	606.
,,	6th	January	1863,	,,	5.
,,	10th	,,	,,	,,	16.
,,	30th	July	,,	,,	379.
,,	10th	September	,,	,,	456.

(Signed) A. J. ARBUTHNOT,
Chief Secretary to Government.

FORT SAINT GEORGE,
31st October 1863.

No. 335. ORDER THEREON, 16th January 1864, No. 165.

Recorded, with reference to G. O. No. 12, dated 4th January 1864.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 336. Read the following Proceedings of the Madras Government in the Revenue Department :—

Forwarding copy of their letter to the Government of India, on the subject of staging Bungalows. } (Here enter 8th January 1864, No. 28 A.)

No. 337. ORDER THEREON, 16th January 1864, No. 166.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 338. Read the following letter from W. FRASER, Esq., C. E., Special Executive Engineer, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Red Hills, 29th December 1863, No. 74:—

SIR,

1. I have the honor to inform you that some time ago, I received a valuation of the land and houses which would be swamped if the Red Hill lake were raised nine feet.

2. This valuation was made by, I believe, a Revenue Inspector, under the orders of the Tahsildar. It is probably correct, and will answer our purpose so far as the valuation of the land is concerned; but I would suggest that the houses should be valued by some one familiar with the valuation of house property.

3. I am informed that the services of the valuator connected with the Municipal Commissioners, could be had for this purpose. If so, I have the honor to request that you will be good enough to have the necessary orders issued.

4. I will point out the property likely to be submerged, but as I am occasionally absent from the Red Hills, I should like to get two or three day's notice of the valuator's intended visit.

No. 339. ORDER THEREON, 16th January 1864, No. 167.

The Municipal Commissioners will be requested to state whether the services of their "valuator" can be made available for the duty referred to in this letter.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 340. Read the following letter from Lieutenant-Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 24th December 1863, No. 4,228 :—

SIR,

1. In my Budget Lists for 1864-65 provision was made for a revised Establishment for the Palar Anicut and channels in North Arcot, to the extent of Rupees 206 per mensem on the recommendation of the Executive Agent now in charge of the Wallajah Range; being, however, desirous of ascertaining the smallest possible number of men and lowest rates of pay required for the Establishment in question, I deputed Captain Chrystie, Executive Engineer North Arcot, to enquire into and report on the matter.

1 Tabular Statement.
1 Letter from Captain Chrystie, dated 17th December 1863.

2. For some time past it has been found necessary to detach for employment at the Palar Anicut a portion of the Establishment belonging to the Cheyaur Anicut, its own proper Establishment, authorized in the Orders of Government noted in the margin, proving to be quite unequal for the efficient performance of the duties required of them. This arrangement Captain Chrystie finds has caused no inconvenience at the Cheyaur Anicut; and he therefore suggests, with the concurrence of the Polur Range Officer, its continuance.

No. 2,109, dated 10th October 1860.
" 977, dated 20th May 1861.

3. Captain Chrystie also recommends the permanent entertainment of an Establishment for the South-east Poiney channel, in which there are five calingulahs with sluices in each, and a head sluice, but no one to manage the shutters belonging to them. The cost of the proposed arrangement involves a yearly increase of Rupees 180 over that of the Establishment at present maintained for the Poiney Anicut, but to meet this Captain Chrystie considers that the post of Writer at the Cheyaur Anicut may be abolished and the Overseer's salary reduced to Rupees 27 per month.

4. The following comparative Statement exhibits the present and proposed Establishments for each of the three Anicuts in question and their subsidiary works and channels :—

Anicut.	Name of channel and No. of miles.		Present Establishment.	Proposed Establishment.	Remarks.
			RS.	RS.	
Palar...	Cauverypauk with tank.	9	348		
	Govindavaudy	14			
	Mahindravady	14			
	Dusi (with branches) ...	30	225	1,650	
	Chuckramallore	3			
	Total Miles ...	70			
	Anicut sluices, &c....		*261		* Permanent Rs. 162 Temporary „ 99 Total ... 261
			834		
Poiney... ...	Western channel.	10	750	930	Vide G. O. of 10th October 1860 and 23rd May 1861, Nos. 2,109 and 977 respectively.
	Peringanje.	9			
	South east.	11			
	Total Miles ..	30			
Cheyar... ...	Channel and Anicut... ...	18	1,920	924	
	Total ...		3,504	3,504	

5. This re-distribution seems to be well suited for the conservancy of the three Anicuts and their dependent channels, and as it involves *no increase in the present cost of Neranicum Establishment,* I trust that it will meet with the approval of Government and be authorized to take effect from the 1st May 1864.

6. The prescribed Tabular Statement is herewith forwarded.

No. 341. ORDER THEREON, 16th January 1864, No. 168.

The modifications of Niranicum Establishments proposed in the foregoing letter, being unattended by any increase of expenditure, are sanctioned from the 1st May 1864.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Read the following papers :—

No. 342. Read the following letter from Lieutenant-Colonel J. C. ANDERSON, R. E., Superintending Engineer, 2nd Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Masulipatam, 3rd November 1863, No. 3 :—

SIR,

1. With reference to your Memorandum No. 145, dated 26th October 1863, calling on me to report whether any portions of the funds (Imperial or Income Tax allotted) to the 2nd Division are likely to remain unspent. I have the honor to inform you that the expenditure on irrigation tanks in Nellore District will probably fall short of the allotment by at least 10,000 Rupees.

2. I shall take care to report whether any further sums will be available for transfer to other Districts as soon as I can judge with tolerable accuracy of the probable expenditure on various works for the remainder of the official year.

No. 343. Read the following Proceedings of the Madras Government in the Military Department :—

Approving, for execution, the Estimates amounting to Rupees 15,500 for repairing the roof and renewing the floor of the five ranges of temporary European Infantry Barracks at Trichinopoly. } (Here enter 13th January 1864, No. 131.)

No. 344. ORDER THEREON, 16th January 1864, No. 169.

1. The foregoing Proceedings in the Military Department will be communicated to the Superintending Engineer, 6th Division, for information and guidance.

2. In his letter recorded above the Superintending Engineer, 2nd Division, reports that a sum of Rupees 10,000 is available from the current year's allotment for the Nellore District under the head "Tanks." This amount will now be transferred to the credit of the Superintending Engineer, 6th Division, as an instalment of the amount of the Estimate now sanctioned.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 345. Read the following Proceedings of the Madras Government in the Revenue Department :—

Approving of the Estimates amounting to Rupees 14,290 for a new Talook Cutcherry, &c., in the town of Coimbatore. } (Here enter 9th January 1864, No. 49A.)

No. 346. ORDER THEREON, 18th January 1864, No. 170.

Communicated to the Superintending Engineer, 7th Division, for information and guidance.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 347. Read the following Proceedings of the Madras Government in the Revenue Department :—

Passing orders on the Proceedings of the Board of Revenue submitting the Budget Estimate of charges in the Revenue Department for 1864-65. } (Here enter 24th December 1863, No. 2,378.)

No. 348. ORDER THEREON, 18th January 1864, No. 171.

Communicated to the Superintending Engineers.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 349. Read the following letter from J. W. B. DYKES, Esq., Collector of Nellore, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, Fort Saint George, dated Nellore, 21st December 1863, No. 35 :—

SIR,

1. The Board of Revenue under date the 21st September 1859, circulated, certain rules that had been prepared by the Chief Engineer, for the *guidance* of *Revenue* and Village Officers as regards the protection of works of irrigation.

2. The rules provided that all calingulahs or escapes should be cleared before the 15th October, ring bunds should be formed by village labor when a tank is breached, and Tahsildars should report to Collectors all cases of neglect of ordinary measures for the safety of tanks, and warn the people that no claims for remission would in such cases meet with attention, &c.

3. The rules were published in the District Gazette of the 7th October 1859, and from that date have been enforced.

4. This year, the last week in October, I observed the Nellore Ryots had closed the escape of this tank. In accordance to orders, I made them clear it. And the Board in their Proceedings of the 14th instant, No. 7,879, having ruled, that I have put a wrong construction on the Circular, I have the honor to request, that you will be so good as to submit for the orders of Government, whether I could construe it otherwise.

5. "The Board do not understand from the papers communicated to them, that any "question of supply for revenue purposes is at issue." I need scarcely add, in clearing an escape, that, in this respect, hey are citorect. But, when the Board go on to observe that the point for the decision of Government is, whether the Engineer or myself is the more competent judge in a professional matter, I beg to dissent. I submit that this is not the question. Such a question has never been mooted by me either in the correspondence now referred to or elsewhere. And the question for decision is would I have been justified in allowing the escape to be closed before the month was out, when the orders received through the Board's own Office expressly ruled that all tank escapes should be cleared by the 15th of October, I presume all will admit, *for the monsoon.*

6. The question which raised the correspondence was, whether it was necessary for me to give intimation to the Officer in charge of the tank and Anicut irrigation, of the orders I had issued. Whether it was necessary for me to tell him I was carrying out orders. I am of opinion, it was not. He was on the spot and should in fact have told me, brought to my notice as Collector, that the Ryots were disobeying a positive order of Government. Whilst, if I had countenanced such disobedience of orders, if I had allowed the escape to be closed and the tank had breached, I beg to submit for consideration, whether I should not have been held and justly held responsible for the result.

7. I was thinking of sending the correspondence now submitted by the Board for the consideration of Government as showing, in the opinion of the professional Officer on the spot, how closely this fine Nellore tank and Anicut irrigation are connected. The Vávilétipad tank, referred to in the Assistant Engineer's letter of the 20th October, is fed by the first section of the Krishnapatnam Canal, and, itself an Inám reservoir, is the channel of communication with a fine sheet of more profitable irrigation below. And in connection with the question of whether the results of Anicut irrigation can properly be estimated without including the Nellore tank in the calculations, I beg you will be so good, now the correspondence has been submitted, as to bring it forward as evidence that will justly have peculiar weight.

No. 350. ORDER THEREON, 18th January 1864, No. 172.

1. The attention of the Collector will be requested to the views of Government expressed in Proceedings dated 24th December 1863, No. 3,819.

2. By paragraph 2, Chapter XI of the Public Works Code, Collectors are allowed an authoritative voice on all questions connected with Public Works in their Districts, except so far as they relate to professional and Departmental points. The matter now at issue was clearly one of a professional character, involving as it did a decision of the question as to the capability of the Nellore tank to receive with safety a larger supply than can be retained while the calingulah is kept open. It is observed that the Officer in charge of the Range intimated to the Collector that it would be positively injurious to keep the head sluice and calingulah open at the same time, and he therefore requested to be made acquainted with the orders given with regard to the regulation of the latter, adding his own opinion that it was desirable to prevent the calingulah from further discharging. Notwithstanding the opinion thus expressed, Mr. Dykes appears to have considered that it was Lieutenant Smith's duty only to look to the supply of the tank, forgetting it would seem that it was useless to throw water in at one end of the tank while it was permitted to flow freely out at the other, depositing in its course, to the injury of the tank, any silt that it might have in suspension.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 351. Read again letter from the Superintending Engineer, 8th Division, dated 25th June, and recorded in Proceedings of Government, 7th July 1863, No. 1,785 :—

Read also the following Endorsement of the Controller and Auditor of Public Works Accounts, dated Chepauk, 22nd December 1863, No. 2,139.

From Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Lieutenant-Colonel C. V. WILKIESON, R. E., Controller and Auditor of Public Works Accounts, dated Trippatore, 15th December 1863, No. 1,508.

SIR,

1. I have the honor to request that you will furnish me with the authority under which, for some years past, the Establishment employed on the Steam Dredge at Paumben has been paid, as I cannot find any record in my Office or that at Paumben.

2. If you do not possess the order necessary, doubtless the Civil Paymaster can supply you if you will be so good as to save delay by procuring it from him, and forwarding it to Government who have called on me to furnish it.

Forwarded to Government with an intimation, that the orders referred to are Madras Government Order No. 523, dated 24th December 1847, and Government of India Order No. 740, dated 21st August 1847.

(Signed) C. V. WILKIESON, Lieut.-Colonel, R. E.,
Controller and Auditor of P. W. Accounts.

No. 352. ORDER THEREON, 18th January 1864, No. 173.

The Governor in Council observes that the cost of the Establishment referred to in the correspondence recorded above should have been charged, from 1st May 1863, against the Estimate for the operations in the Paumbem Channel, and directs the adoption now of this course, commencing with pay for April last.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Read the following papers :—

No. 353. Endorsement of the Superintending Engineer, 5th Division, dated Salem, 29th December, 1863, No. 1,705.

Read the following letter from Captain J. GODDARD, R. E., Executive Engineer, Bangalore, to Lieutenant-Colonel H. W. HITCHINS, R. E., Superintending Engineer, 5th Division, dated Bangalore, 23rd December 1863, No. 427.

SIR,

1. I have the honor to request you will obtain the orders of Government on the following, viz. :—

Am I to furnish Receipt Stamps and are Contractors to do the same when giving and taking receipts in transacting business with subjects of the Mysore Government?

2. Under the Mysore Government Receipt Stamps are not affixed to receipts under any circumstances.

Submitted for the orders of Government.

(Signed) H. W. HITCHINS, Lieut.-Colonel, R. E.,
Superintending Engineer, 5th Division.

Referred to the Board of Revenue for its opinion.

Chepauk,
5th January 1864.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government, P. W. D.

No. 354. Proceedings of the Board of Revenue, dated 11th January 1864.

Read Proceedings of Government, Public Works Department, dated 5th January 1864, referring to the Board of Revenue for opinion a communication from the Superintending Engineer, 5th Division, requesting to be informed whether the Contractors (being subjects of the Mysore Government) are to affix Receipt Stamps to their bills.

The Board observe that in the letter from the Government of India, communicated in G. O. dated 23rd June 1863, No. 1,106, Revenue Department, it is stated that "except as regards "Proceedings before Military Court of Request, the Stamp Act is not in force in Bangalore." This ruling is conclusive against the proposal to require the use of Receipt Stamps at that Station.

(A true Extract.)

(Signed) W. HUDLESTON, *Secretary.*

No. 355. ORDER THEREON, 18th January 1864, No. 174.

The foregoing Proceedings of the Board of Revenue will be communicated to the Superintending Engineer, 5th Division, with reference to his letter No. 1,705, dated 29th December 1863, recorded above.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 356. Read the following letter from Colonel A. C. PEARS, Postmaster General, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, Fort Saint George, dated Madras, 29th December 1863, No. 5,685 :—

SIR,

1. I have the honor to state, for the information of His Excellency the Governor in Council, that I intend recommending a Mail Cart in supersession of the existing Runner Establishment on the road between the Railway point of Tripetty and Nellore, whereby at nearly the present cost I anticipate great improvement in the time of the travelling of the very important Mails for and from Madras, Hyderabad, the northern stations and Calcutta passing over it.

2. I accordingly addressed the Superintending Engineers of the 2nd and 4th Divisions, requesting to be informed of the condition of the road, and its practicability for a Mail Cart, and I subjoin copy of their replies ; and as these on the whole are unfavorable to the project, I request Government may be pleased to pass orders for the improvement of the road in question at an early date.

No. 357. ORDER THEREON, 18th January 1864, No. 175.

The Postmaster General will be informed that the Government are unable at present to provide any funds for the improvement of the line between Tripetty and Nellore. The Superintending Engineers of the 2nd and 4th Divisions have made due provision for the work in the Budget of 1864-65, and have promised to submit the necessary Estimates at an early date. The improvement of the line can therefore be undertaken only after 1st May next.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 358. Read the following Proceedings of the Madras Government in the Revenue Department :—

Waiving all claim against the landholders from contributing their share towards the cost of the Kesavarum Anicut, Channel, &c., in the Madras District. } (Here enter 11th January 1864, No. 51.)

No. 359. ORDER THEREON, 18th January 1864, No. 176.

Communicated to the Superintending Engineer, 4th Division.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 360. Read the following Proceedings of the Madras Government in the Educational Department :—

Sanctioning the proposed alteration in the sanctioned Plan in the School-house at Rajahmundry. } (Here enter 8th January 1864, No. 6.)

No. 361. ORDER THEREON, 18th January 1864, No. 177.

Communicated to the Superintending Engineer, 1st Division, for information and guidance.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 362. Read the following Proceedings of the Madras Government in the Revenue Department :—

Stating that Local Fund Budgets should be submitted to Government by the Board of Revenue, and that it is in contemplation to issue rules on the subject. } (Here enter 9th January 1864, No. 46.)

No. 363. ORDER THEREON, 18th January 1864, No. 178.

1. Communicated to the Superintending Engineers who will be requested to afford the Collectors such assistance as may be necessary with a view to the preparation of the Local Fund Budget, which are for the future to be submitted by the latter to the Board of Revenue.

2. The Superintending Engineers will, as usual, submit separate Budgets for works to be executed from Income Tax Funds.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 364. Read the following Proceedings of the Madras Government in the Revenue Department :—

Stating that the Budget of receipts and charges for Public Bungalows will be prepared by the Board of Revenue and will include charges for construction and repair, which Collectors will enter in their Estimates after communication with the Superintending Engineers. } (Here enter 9th January 1864, No. 45.)

No. 365. ORDER THEREON, 18th January 1864, No. 179.

Communicated to the Superintending Engineers.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 366. Read the following Proceedings of the Madras Government in the Military Department :—

Communicating letter from the Quarter Master General, reporting who are the proprietors of the Shops at Cannanore, and that they have been ordered to remove them at their own expense. } (Here enter 11th January 1864, No. 98.)

No. 367. ORDER THEREON, 18th January 1864, No. 180.

Communicated to the Superintending Engineer, 7th Division, with reference to G. O. No. 3,755, dated 18th December 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 368. Read the following letter from Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Trichinopoly, 31st December 1863, No. 1,591 :—

SIR,

With reference to your Memorandum No. 34, dated 9th ultimo, and its enclosure (herewith returned), I have the honor to forward the Statement of rates at which brick in chunam, &c., work is being executed in the Madura and Tinnevelly Districts, approved by the Collectors of the above Districts, as therein desired.

3 Statements of Rates.

No. 369. ORDER THEREON, 18th January 1864, No. 181.

The Superintending Engineer, 8th Division, will be requested to adopt the rates entered in the Lists submitted by him, when framing Estimates providing for the several descriptions of work therein specified. The Government will be prepared to authorize such increase to Estimates already sanctioned by it and under execution, as may be due to the adoption of the rates now approved of, in the event of the excess being greater than that which the Superintending Engineer is empowered to pass under the operation of paragraph 12, Chapter IV of the Public Works Code.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 370. Read the following :—

No. 2,236.

Statement showing the sums drawn on account of Public Works in the several Districts for the Quarter ending 31st October 1863, submitted to Government with reference to their Order No. 1,331 dated 26th May 1863.

Districts.	1863.			Grand Total.	Remarks.
	August.	September.	October.		
	RS.	RS.	RS.	RS.	
Ganjam	9,758	7,710	6,504	23,972	
Vizagapatam ...	13,018	8,931	13,519	35,468	
Godavery	25,730	11,045	28,506	65,281	
Kistna	22,586	14,664	18,215	55,465	
Nellore	17,300	10,729	13,057	41,086	
Cuddapah	16,279	20,500	23,930	60,709	
Kurnool	5,041	3,710	3,768	12,519	
Bellary	9,382	11,134	11,307	31,823	
Presidency ...	35,830	48,382	38,295	1,22,507	
Madras	24,196	25,713	25,897	75,806	
North Arcot ...	18,000	14,609	13,833	46,442	
South Arcot ...	11,465	9,791	9,631	30,887	
Salem	8,915	11,899	9,303	30,117	
Bangalore... ...	21,924	20,116	9,937	51,977	
Tanjore	12,782	13,930	13,108	39,820	
Trichinopoly ...	13,263	8,393	12,259	33,915	
Coimbatore ...	18,842	27,248	17,973	64,063	
Malabar	9,529	9,252	*15,462	34,243	* Includes Rs. 1,300, drawn from private contribution fund.
South Canara ...	3,339	4,286	4,600	12,225	
Madura	7,041	8,238	8,909	24,188	
Tinnevelly... ...	7,984	7,915	6,438	22,337	
Total..	3,12,204	2,98,195	3,04,451	9,14,850	

Chepauk,
12th January 1864.

(Signed) C. V. WILKIESON, Lieut.-Colonel, R. E.,
Controller and Auditor of P. W. Accounts.

No. 371. ORDER THEREON, 18th January 1864, No. 182.

Communicated to the Deputy Auditor and Accountant General.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Read the following papers :—

No. 372. Read the following letter from Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department, Public Works, dated Mylore, 17th December 1863, No. 1,532 :—

SIR,

1. I have been favored by the Collector with a copy of his letter to the Secretary to Revenue Board, in reply to G. O. No. 3,206, 3rd ultimo. I observe that while agreeing with me in general, he has protested against my action in the case of six roads.

2. My complaint was, however, principally in regard to these very roads, they are unmetalled, and badly drained, the amounts allowed for them are more than are required for simple repair, and are utterly insufficient to keep them in good order, maintenance is an impossibility.

3. The second, third and fourth, are under Mr. Bywater in addition to other work, except in perfectly dry weather he has great difficulty in merely traversing them from the nature of the soil and the roads; it is impossible that he can see whether any and what work has been done since his last visit; money is disbursed, but no body can check it, and the whole system is most unsatisfactory.

4. In the dry weather, the roads are easily traversed, in the wet they are impassable, and the maintenance allowance cannot make them passable.

5. With a discretionary allowance at our disposal the local Officers can sanction such amounts as may be necessary on these or any other lines for some specific work, for which an Estimate must be prepared; thus affording a real standard wherewith to compare the work executed.

6. I have not the slightest objection to employing the whole fund on one of these roads if Mr. Levinge prefers them to either of the two lines which I have mentioned. My only object was to finish one or two roads at a time, and both the others have been begun before, we cannot work on only one line for we cannot collect sufficient labour.

7. My objection to the present system is, that we are trying to do too much; roads all over the country all going on at once, not making, but patching here and there, necessarily under the supervision of petty Maistries, since our funds will not allow more, who are occasionally inspected by a Supervisor, who, to see all, must travel 360 miles, besides considerable distances back as he cannot, generally speaking, go from one to other.

8. I much regret to find Mr. Levinge now protesting, as when I first mentioned the matter to him it was principally because of the difficulty of inspecting these roads in the Zemindary, he fully acknowledged the justice of my complaint and thought the remedy judicious.

9. The short lines near Madura and Dindigul which he agrees to give up are easily looked after. I beg therefore that the Government will be pleased to pass my plan in full or to leave the roads as they now are, in the latter case I respectfully submit for the consideration of Government the propriety of transferring the charge of those in the two Zemindaries, with Mr. Bywater who is in charge of them, to the Collector.

No. 373. Proceedings of the Board of Revenue, dated 5th January 1864.

Read the following letter from V. H. LEVINGE, Esq., Collector of Madura, to W. HUDLESTON, Esq., Secretary to the Board of Revenue, Madras, dated Madura, 15th December 1863, No. 292.

SIR,

1. As directed in the Order* of Government No. 3,206, dated the 3rd November, I have the honor to submit with reference to Captain Moberly's proposals, that I agree with him that it is advisable that the maintenance allowance of some of the unmade roads of the District should be given up to be formed into a discretionary allowance to be expended on the sanction of the local authorities.

* Vide Board's Proceedings, dated 7th December 1863.

2. The road from the Coimbatore boundary by Pulny to Tirumangalam alluded to by Captain Moberly in paragraph 13 of his letter to the Secretary to the Government, Department Public Works, dated Madura, 17th October 1863, No. 923, is an important line, and I fully agree to an Estimate being made to put it in thorough repair. I do not think the direct road to Tondi is of such importance as many other roads in the District, and I protest altogether against the allowances for the roads in the margin† being withdrawn from those roads to make either the Tondy or first mentioned road.

	RS.	
† Melúr via Tirpattúr towards Tanjore as far as Poodcocottah boundary ...	1,500	
Tondy via Devacottah and Tirpattúr, Cottamputty to Dindigul... ...	6,300	A Salt road.
Ramnad to Madura	5,100	do.
Sayelgoodi to Madura	4,650	do.
Oosilamputti to Tirumungalum ...	1,000	
Pereyakolam via Poombarai to Pulny.	787	

Submitted to Government with reference to their Orders in the Public Works Department quoted by the Collector.

(A true Copy and Extract.)
(Signed) W. HUDLESTON, *Secretary.*

No. 374. ORDER THEREON, 18th January 1864, No. 183.

1. The Superintending Engineer, 8th Division, in his letter of 17th October 1863, No. 923, submitted for the consideration of Government the following propositions in connection with the improvement of certain important lines of communication in the District of Madura. The Budget allotments for the maintenance of the roads in that District amount in the aggregate to Rupees 62,132, of which sum Captain Moberly proposed to set apart Rupees 25,100 for the four roads named in the margin, and Rupees 10,000 as a discretionary grant, the balance (Rupees 27,032) being made available for the proper construction of one or more lines in each year. The Government was inclined to view this arrangement with favor, but before passing final orders it had resolved on obtaining the views of the Collector which it is now put in possession of together with a letter from Captain Moberly containing his opinion thereon. Mr. Levinge does not urge any objection to the system which the Superintending Engineer proposes to initiate, but he protests against, withholding the existing maintenance grants for the six roads noted in the margin. Captain Moberly, on the other hand, states that the allowances for these lines are quite inadequate for maintaining them, and that he therefore considered it advisable to suggest the allowances being withheld in order thereby to contribute to the formation of a discretionary grant to be expended at the discretion of the local authorities. The Government does not consider Captain Moberly's suggestion well calculated to remedy the evils complained of. The six roads referred to by the Collector are considered important, and three of them are Salt lines. It is advisable, therefore, that the allowances for their maintenance should be continued, and that the Superintending Engineer should, in communication with the Collector, consider what increase of the existing grants is necessary to ensure the lines being maintained in a tolerably efficient condition until they shall in their turn be taken in hand and properly constructed.

	RS.
Trunk Road to Madras ...	12,000
Road from Madura to Aumanaicke-noor	4,200
Do. from Madura to Tondy ...	6,700
Do. to Tuticorin	2,200
Total ...	25,100

3rd November 1863, No. 3,206.

	RS.
Melúr towards Tanjore as far as Poodocottah boundary ...	1,500
Tondi to Dindigul	6,300
Ramnad to Madura	5,100
Siyelgcodi to do.	4,650
Oosilamputti to Teroomungalum.	1,000
Pereyakolam to Puny	787
Total ...	19,337

2. Under this view of the case the Governor in Council directs that the allowances* for the ten roads enumerated above be continued, and those for the remaining lines be abandoned, by which arrangement there will be a saving of Rupees 17,695. Of this sum Rupees 10,000 will be held at the disposal of the local authorities as a discretionary grant, and the balance of Rupees 7,695 will be available for new works. These alterations will be attended to in the Budget of 1864-65.

* Rupees 44,137.

3. The Government has in a separate Order negatived the proposal of the Superintending Engineer to expend a sum of Rupees 93,000 on the line from Madura to Tondy in addition to a sum of Rupees 33,316 already sanctioned for the same work, and in doing so it was guided by the opinions of the Collector. It is important, however, to determine the main lines to which precedence should be given, and the Estimates called for in Proceedings No. 97, dated 11th January 1864, should be in the first instance submitted for one or two such lines, and adequate grants will be made for their prosecution.

No. 1, dated 4th January 1864.

4. The Government sees no reason to adopt the course suggested by Captain Moberly in paragraph 9 of his letter dated 17th December 1863, No. 1,532, in regard to the transfer of the charge of certain lines to the Collector.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 375. Read the following Proceedings of the Board of Revenue, dated 23rd December 1863:—

Read the following letter from A. WEDDERBURN, Esq., Acting Collector of Bellary, to W. HUDLESTON, Esq., Secretary to the Board of Revenue, Madras, dated Bellary, 10th December 1863, No. 173.

SIR,

1. I have the honor to bring to the notice of the Board of Revenue certain matters connected with the welfare of this District, which I think require early attention.

First is the state of the season. The prospects of rain, I may now say, are over for this year, and probably no more will be received for the next six months. I understand that there has scarcely ever been a worse season, the general average rain-fall over the District has not exceeded fourteen inches since 1st December last. The consequence is that few tanks have received any, and none an adequate supply; there will be a most deficient rice crop, and even the dry crops will probably have a scanty yield, prices are rising in anticipation. And yet the river Toombuddra forming the western and northern boundary of the District, has flowed for four months nearly full to the banks, and the adjoining District of Kurnool has had a good season, and copious rain has also fallen in the southern direction of the adjoining territory of Mysore.

2. The Board are aware that a project has long been mooted for bringing an irrigating canal from the Toombuddra due east through a gorge in the western chain of hills, which in my opinion is likely to have most important climatic effects besides the actual area of irrigation. I beg that a strong recommendation be made that this project which has been found feasible by the late District Engineer, Captain Fischer, may no longer be delayed—every month of delay is a source of direct loss to Government and to the people. A famine not ten years back occasioned a loss to Government of 19 lacs of Rupees, being 13 lacs expended on famine roads without proper supervision, for the immediate maintenance of the poor, and 6 lacs of decrease of Revenue for the year; the loss to the people is not stated, but scanty food to men and cattle cannot but have been disastrous.

I believe nearly ten years.

3. In alluding to the climatic effects of a canal turned eastward into the District, I refer to my own observation, and to what has been pointed out to me by others.

4. When the clouds of the western monsoon reach the borders of the District it has been observed that if they strike in their course the angle of the Toombuddra, they follow its *north-eastern* course towards Kurnool. There is not a doubt that the condensation caused by the cold of the river attracts the clouds, and diverts them from a due eastern direction. Were, however, an eastern channel cut, there would be an antagonistic condensation eastward, and *vice versa* in the north-east monsoon, and Bellary would obtain a better distributed rain-fall. There is nothing else to cause it, no trees. Bare heated rocks, and scorched plains on the contrary, drive off the impending shower. This I have noticed many times in Bellary itself, so soon as the clouds were about to break, a wind sprung up (*i. e.*, the cold air rushing into the heated vacum) and carried off the clouds, in fact dispersed them into the upper air.

5. I have noticed the same in Cuddapah. At its southern extremity there is a mango tope of considerable dimensions through which flows a stream of water, frequently in the south-west monsoon heavy rain falls on that tope and not a drop on the town not two miles off.

6. The next point I have to notice is the recent change in the Department of Public Works. The late locally experienced District Engineer of Bellary, Captain Fischer, is now by that change in the capacity of a Subordinate Executive Officer in the charge of a Range of Military buildings, for which limited duty he draws an equal if not larger salary than he did as the Officer in charge of a District of 11,000 square miles in extent. The Superintending Engineer, on the *lucus a non lucendo* principle has never as yet got further into the District, than Gootty, he has more territory to superintend than he can ever accomplish. Knows nothing personally of the District, resides at Cuddapah, and every communication I have with him must travel 300 miles, whereas the late District Engineer might have been generally at the Collector's elbow. I may ask how this sort of arrangement is likely to work. That a District may prosper it should have its District Engineer, as well as its Collector, both Officers of local experience, and able to exercise personal observation and to take a personal interest—centralization is a mistake.

7. As regards the season it is true that it is below par generally in the Presidency, and famine prices rule in most Districts. Yet Bellary is about the worst. It is very far from a sea coast, has an indifferent main road from the south-east and no Railway, and has a bad neighbour in the Nizam, whose views of political economy are different from ours, and who will not allow grain to be exported from his dominions; consequently, the difference of price of grain on the right and left banks of the Toombuddra is excessive, given then a bad season, a bad neighbour, an inland position and a bad main road, I consider Bellary entitled to early attention. The 3rd sort rice, which is the food of the Native Troops, is selling in the bazaar at eight Bellary measures equal to about five Madras measures, per Rupee. The difference between that and twelve measures, is paid by Government, and will amount to a very considerable item of public expenditure. A Toombuddra Canal and a resident District Engineer would do much to improve the future prospects of the District, and I consider it my duty to press the above subjects on the notice of the Board and Government. I have only to add that I am not in favour of famine roads, nor are they required, as agricultural wages are high—I advocate merely the early execution of what will prove in the first instance, a most productive and eventually a truly economical undertaking.

1. Ordered to be submitted for the information and consideration of Government.

2. The Acting Collector should have reported specially at an earlier date on the prospects of his District in the current season, and will send fortnightly reports till matters improve.

3. The Acting Collector of Cuddapah has been required by telegraph to submit a special report on his District.

(A true Copy and Extract.)

(Signed) W. HUDLESTON, *Secretary.*

Transferred to the Department Public Works.

(Signed) J. D. SIM,
Secretary to Government.

Fort Saint George,
24th December 1863.

No. 376. ORDER THEREON, 18th January 1864, No. 184.

No. 3,240, dated 7th November 1863.
" 3,621, " 8th December "

1. The Board of Revenue will observe from the Orders marginally noted, copies of which will now be furnished to it, that with a view to determining the feasibility and cost, as well as the advantages of a Canal for the irrigation of part of the Adoni Táluq of Bellary and portions of the Kurnool District lying between the Hindry and Toombuddra, Mr. Supervisor Porter has been directed to take a line of levels from the Toombuddra from Seeroogoopa or from any point above that place that he may find suited for the erection of an Anicut, and beginning with a level of six feet above the bed of the river at the spot selected, to carry that level on a contour line across the Pedda Huggry, and through the Adoni Táluq, onwards towards Kurnool so as to ascertain by the area embraced the extent of land under command of a channel carried in that direction, affording at the same time a rough approximate Estimate of the cost of the Anicut and Channel with all its subsidiary works.

2. As regards the irrigation of the plains surrounding Bellary, the Government believes that it is from Ballabhapooram alone that a Channel can be led for that purpose, but the survey of the country, and the levels that have already been taken show such vast, if not insuperable, physical difficulties to exist, as to satisfy the Government that the work is of greater magnitude than can at present be undertaken by the State.

3. It is observed that in Proceedings No. 3,608, dated 7th December 1863, a special Establishment was authorized to be entertained for the investigation of the scheme for extending the Irrigation Company's Canal works in the Bellary District.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 377. Read the following letter from Lieutenant-Colonel C. V. WILKIESON, R. E., Controller and Auditor of Public Works Accounts, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 9th January 1864, No. 2,227:—

SIR,

1 Indent in Triplicate.
1 Letter.
Dated 16th November 1863, No. 2,870, dated 2nd October 1863, No. 3,323.

With reference to the Orders of Government marginally noted, I have the honor to submit for sanction an indent in triplicate for 30 wheel-barrows for the use of the 2nd Range of the Madura District received from the Superintending Engineer, 8th Division, with the accompanying letter, which should have been submitted direct to Government instead of this Office.

From Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Lieutenant Colonel C. V. WILKIESON, R. E., Controller and Auditor of Public Works Accounts, dated Covilputty, 23rd December 1863, No. 1,583:—

SIR,

Nos. 2,870 and 3,323, dated 16th November and 2nd October 1863.

1. In forwarding an indent (in triplicate) for 30 wheel-barrows, for the use of the 2nd Range, Madura, I have the honor, with reference to Government Order marginally noted, to request that you will obtain the sanction of Government thereto at your earliest convenience.

2. The following are the names of roads for which the wheel-barrows are required :—
Road No. 18, from Pullaputty to Cumbem, viâ Periacolum.
Road Nos. 17 and 2, from Ammianaickennoor to Ambravutty, viâ Pulkanooth and Kunnevody.
Road No. 1, from Dindigul to the limits of Trichinopoly.
Road No. 13, from do. to Caroor.
Road No. 15, from do. to Ammianaickennoor.
Road No. 19, from do. to Buttalagoondoo.

3. The cost of each wheel-barrow if made at Madura will be about Rupees 10.

No. 378. ORDER THEREON, 18th January 1864, No. 185.

1. Sanctioned.

2. The cost* of the wheel-barrows will be defrayed from the sum of Rupees 18,000† which has been set apart on account of Stores likely to be purchased in India during the current year.

* Estimated by the Superintending Engineer at 10 Rupees each.
† Part of Rupees 1,80,000 provided for Stores in the Budget for 1863-64.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 379. Read the following letter from Sir MACDONALD STEPHENSON, Chairman Indian Tramway Company (Limited), to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 26th December 1863 :—

SIR,

I have the honor to forward a copy of instructions to the Engineer of the Tramway Company W. Hardinge, which I trust will meet the concurrence and approval of the Government, whose, views I have endeavoured to carry out on all points.

From Sir MACDONALD STEPHENSON, Chairman, Indian Tramway Company (Limited), to GEORGE HARDINGE, Esq., C. E., Engineer of the Arconum Line, Indian Tramway Company (Limited), dated Madras, 26th December 1863.

DEAR SIR,

1. I send a few lines for your guidance and instruction, with reference to the line of light Railway between Arconum and Conjeveram.

Funds.—You will obtain from Messrs. Arbuthnot, & Co. from time to time the funds required, and sanctioned by the Committee.

Road.—You will at once set out and peg the line from the Junction at Arconum to the site selected at Conjeveram, taking one-half the present roadway, and leaving the other half for the ordinary traffic.

Fencing.—You will at once fence the whole line, on each side at a distance sufficient to protect the young trees from cattle. A ditch and mound, cactus or other quick growing plant to be sown, and temporary wood fence on the outside of the mound, to protect from cattle.

Staff.—Efficient assistance will be provided by favor of the Madras Railway Officers, on application.

Approaches.—The arrangements for approaches at both the termini, the gradients, curves, waterway, and means of crossing, to be observed, except where varied from further experience you may obtain.

Contracts.—The quantities approximately ascertained, contracts should be at once entered into on the most favorable terms with responsible men for taking, delivering, and depositing along line of P. W. materials—for earthworks—ballast delivered along line—fencing—sleepers—laying permanent way, and brickwork—for timber in bulk for piles, and crossing the Irishbridges and for bungalows or station buildings for immediate occupation by staff, and after use by the Company.

Engine Repairs will be executed at first by the Madras Railway Company at their works.

Rolling Stock.—Estimates should be at once obtained for the building of Carriages and waggons, including iron work and price with iron work furnished by the Company.

Telegraph.—To be erected.

Corteliar Bridge.—A screw pile bridge of 450 feet should be immediately ordered from England, and the line crossed by a temporary dam, until the monsoon season. I have ordered this bridge by this mail, to save time.

Government Substratum.—The Government provision of the substratum includes the Corteliar Bridge, but you will best consult the wishes of Government, by completing the line with all possible despatch (by 10th May if possible, when many thousands of passengers go to Conjeveram), and when the line is opened the proportion of any expenditure which belongs to the Government, will after examination be defrayed by the Government.

Plans.—Your plans will be proceeded with speedily, and your drawings and information of all descriptions should be open to inspection and approval of any Officer of the Government who may be appointed, should such a course be deemed advisable by the Government.

Accounts.—Your accounts will be audited quarterly by an Auditor nominated specially for the purpose.

Laborers.—Your special attention should be given to the workmen being regularly paid and protected, whether employed by the Company or under contract, to ensure a certain supply of labor at all times.

Borings.—Should be taken at the Corteliar and Palaur rivers, the Government instruments being borrowed, and the results transmitted with all despatch to the Company's Engineers in England.

Sleepers.—Wood sleepers must be used at first, whether replaced hereafter by pot-sleepers or not, as determined by the experience of the Madras Engineers, and if a slight increase of size can be obtained without much additional cost, they should be so increased.

Working.—Instructions will be sent out in time to make all needful arrangements.

2. On all points your own experience, with the early instructions of the Company's Engineers in London will suffice for your guidance, and you will appreciate the advantage of profiting by the great local knowledge of the Officers both of the Government and of the Madras Railway Company who have obligingly intimated their desire to afford to the Company any advice or assistance required.

No. 380. ORDER THEREON, 18th January 1864, No. 186.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 381. Read the following letter from R. KENNEDY, Esq., Special Executive Engineer, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Adyar, 30th November 1863, No. 168:—

SIR,

1. I have the honor to forward the Plans and Estimates called for in the Proceedings of the Madras Government and order thereon of 2nd July 1863, No. 1,742, for extending the Northern Canal from Doogarazpatam to Kistnapatam, a distance of 19 miles and 310 yards by the Plan now proposed.

1 Detailed and Abstract Estimate.
1 Specification Report.
1 Plan.

2. As the line of canal between the same two points had been previously surveyed and estimated for under the orders of Captain Chambers, I expected that in carrying out the orders of Government, I would merely have to verify former surveys, and recommend their adoption. On proceeding to examine the locality however, I came to the conclusion that it would be advisable to survey carefully the waste land lying between the swamp shown in the map, along which Captain Chambers carried his line, and the sea shore, a breadth of from 2 to 4 miles. I found this to be necessary from the great difficulty which would be experienced in excavating the line in the water, from the strong objections of cultivators, and from the fact that a tract of most valuable land for cultivation would be destroyed, in addition to what would be taken up by the canal, as the latter would drain the whole of it.

3. A reference to the Plan will show that Captain Chambers' line goes through nearly all the length of the cultivated land, entering it at the 10th mile, and leaving it at the $18\frac{1}{2}$ mile, a distance of $8\frac{1}{2}$ miles. The breadth of the swamp is from two to five hundred yards generally, and is supplied with fine fresh water from the high sandy land on both sides, from which it emerges by hundreds of drains cut into it at short intervals.

4. I thought of endeavouring to carry the canal along the margin of it, but found this impracticable from the height of the sand, the abruptness of the slopes down to the water, and from the numerous sharp turns and irregular curves.

5. Not having found any sections of levels taken along the plain amongst the records of the various offices, I carefully surveyed the whole personally between the Rampairoo and Soornamooky rivers, and discovered the line I now submit for approval which is in my opinion preferable to the other. The sections although heavy, are certainly not sufficiently so as to be looked upon as a material obstacle. The soil is loose and sandy but well covered with jungle, and as regards considerations of future maintenance, no part of it is so objectionable as that part of Captain Chambers' line between the 9th and 10th miles, which is formed of pure drifting sand, and a canal cut through it, would be most difficult to keep open.

6. Again the line now proposed has the great advantage of being almost perfectly straight, and a mile shorter than the other, and of going through waste land almost the entire distance, only two or three hundred yards being cultivated and that Punjah land.

7. In Captain Chambers' Estimate, there is an item of Rupees 20,000 for the cultivated land required merely for the canal; but in all likelihood Government would have to pay for the whole length and breadth of the swamp, as it would be drained of its fresh water, and probably damaged by the salt water of the canal.

8. That the whole question may be fully before Government I have placed both schemes in juxtaposition on the same map. From Captain Chambers' well known judgment and experience in such matters, I am inclined to think that the plain has not been minutely examined, and that the swamp route has been chosen as the only practicable one. It is skirted on the sea side and the swamp side by high sand hills, and from a distance the plain presents no appearance of a practicable route.

9. With these remarks I proceed to explain the details of the Plans and Estimates which have been framed, and the surveys made, keeping in view the instructions of Government as regards the advisability of using the backwaters, and adopting measures to take advantage of the tides in keeping up the supply of water.

10. The backwaters at Doogarazpatam are taken advantage of for several miles, up to the town from the south; but from that point the passages are so intricate, and so shallow, that for economical reasons and as being of far greater public convenience, I have considered it the best plan for the first three miles to cut the channel along the edge of the backwater and to use the excavated earth to isolate it therefrom. This in various cases has in other backwaters been found necessary, after much money has been needlessly wasted in endeavouring to navigate them.

11. As regards the storing up water by the tides, the conditions are so favourable for carrying this channel out on the same levels as the Pulicat lakes and canals, and as there is so little to be gained by adopting another course, which must be attended by additional expense and delay to some extent of the traffic, I have deemed it most beneficial to make no alteration in the bottom levels, and the canal will thus be in connection directly with the sea by the Soornamooky and Rampairoo bars, and have the advantage of an occasional scour thereby as well as of the water in the channel being kept constantly in motion by the tides.

12. As Doogarazpatam will be a centre of traffic, I have kept the channel 15 yards wide at the bottom at that place for a length of 3 miles, so as to afford ample accommodation for the boats. This additional breadth in section will also afford a sufficient quantity of excavated earth, to form a substantial bank and towing path on the seaward side. For the remainder of the distance the canal will have an equal surface breadth of 52 feet, as from the 3rd to the 9¾ mile, the bottom breadth will be 12 yards, and the berm slopes two to one, the soil being pretty stiff, and from the 9¾ mile to the 19th the bottom breadth will be 10 yards, and the berms sloped three to one, the soil being loose and sandy, and thus the surface breadth* will be equalized.

* Of water.

13. The turfing is a very heavy item, as it will have to be carried a long way; but the advantages of it are so great, and I have seen so much evil, and damage, and expense incurred by no provision being made for this item in the original Estimates that I now invariably enter it as being as indispensable as any other part of the work, and it is better to show at once the whole expenditure required to complete the work in a substantial manner than to have to bring forward a supplemental Estimate afterwards.

14. The rates allowed are I believe liberal, and will allow of the spoil being carried to a clear distance of 10 yards from the edges of the berms, which will serve two purposes, namely it will leave ample tracking room, and also enable the canal to be widened at any future time without having again to move the banks. In fixing those rates, I have allowed for the possi-

bility of the work itself causing a rise in wages as labour is now generally in increasing demand, and large gangs of work people working in such an out-of-the-way place, will cause a rise in the cost of the necessaries of life. No bandies can traverse the jungle, and the rice required will have to be transported by coolies.

15. From the enquiries I made along the line, I conclude that nearly all the land belongs to Government, and I believe the small sum allowed as compensation will be sufficient.

16. I have taken advantage of the small lagoons in the line which are of sufficient depth, and have carried it across the branches of the Soornamooky river at points where there is at all times of the year ample depth, with firm banks securing safety from damage, or change during floods.

No. 382. ORDER THEREON, 18th January 1864, No. 187.

1. In G. O. 2nd July 1863, No. 1,742, the Special Executive Engineer in charge of the Eastern Coast Canal was directed to prepare and submit Plans and Estimates for the extension of the northern section of the Canal as far as Kistnapatam. With the letter above recorded, Mr. Kennedy submits the required Plans and Estimates for this extension, namely, from Doogarazpatam, its present termination, to the Estuary of the Kundlair river south of Kistnapatam.

2. Mr. Kennedy proposes that the alignment of the Canal shall be carried direct to the northward parallel with the coast, which he considers will be better than the line to the westward proposed by Captain Chambers, as the latter would be about a mile longer, and would probably prove injurious to a considerable area of wet cultivation, and though entailing lighter cuttings, its cost would be enhanced by the compensation to be paid for land and damage; moreover the line proposed to be followed by Mr. Kennedy will probably be more easy of maintenance.

3. The Estimate now submitted amounting to Rupees 2,35,000 provides for a waterway 52 feet wide at the surface, with a depth of 3 feet at low tide. No masonry works of any description are proposed, but provision (to the extent of 25,000 Rupees) is made for turfing the side slopes.

4. Government being fully satisfied that the long contemplated extension of the Eastern Coast Canal to the northward will be highly beneficial and should now be carried out, and approving of the reasons adduced by Mr. Kennedy for adopting the line which he proposes, resolves to submit the Estimate for the sanction of the Government of India, and to request permission to proceed with the work from the 1st May next from the funds which will be provided for it in the Budget for 1864-65.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Ordered that the following letter be despatched.

No. 383. From Colonel C. A. ORR, R. E., Secretary to the Government of Fort Saint George, Public Works Department, to the Secretary to the Government of India, P. W. D., dated 18th January 1864, No. 188.

SIR,

1. I am directed by the Honorable the Governor in Council to submit, for the consideration of the Government of India, the accompanying Estimate amounting to Rupees 2,35,000 for the extension of the East Coast Canal from Doogoorazpatam to the Estuary of the Kundlar river south of Kistnapatam (a distance of about 19¼ miles) in the Nellore District.

2. So far back as 1855, the late Board of Public Works submitted an Estimate for this work,* amounting to Rupees 1,39,665, and explained that the proposed extension† of the canal was all that was required to place Madras in intimate connection with the Town of Nellore, as from that place to the Kistnapatam back-water, a distance of 17½ miles, a direct and excellent road was under construction. The Board, moreover, explained that the excavation of the additional 20 miles of canal would be of great benefit to a considerable tract of country through which no road existed, and would provide cheap transit for Indigo, Native cloths, &c., of Nellore to the Madras market on most favorable terms.

* Canal from Doogoorazpatam to the Kistnapatam back-water, 20 miles.

† 18 yards wide at the water surface and 12 at the bottom.

3. The advantage of opening out the northern line of communication to Doogoorazpatam under the orders of the late Honorable the Court of Directors, No. 14, dated 31st March 1852, communicated in a letter from the Government of India, dated 21st May following, having been made manifest, and the Madras Government entertaining no doubts whatever of the importance of the proposed extension from Doogoorazpatam to Kistnapatam, strongly supported the project in a letter to the Supreme Government, No. 137, dated 30th March 1855.

‡ No. 567, 1st June 1855.

4. In its Orders‡ on the Public Works Budget for 1855-56 the Government of India intimated that the project would "be recommended in the strongest manner for the sanction of the Honorable Court," and from the Despatch communicated with the letter from Colonel Baker, marginally noted, it will be observed that the Home Government readily accorded its sanction to the Estimate submitted by the late Board of Public Works, amounting, as stated above, to Rupees 1,39,665.

No. 4,763, dated 8th October 1856.

§ No. 77, dated 7th December 1859.

5. Subsequently§ the Madras Government addressed the Right Honorable the Secretary of State for India requesting permission for the immediate commencement of the work, and it urged that for a number of years previously all its ablest and most experienced servants, both Revenue Officers and Engineers, who were in a position to form a judgment on the question, had agreed as to the great importance of extending the Canal. The Secretary|| of State, however, refused to accord the permission solicited on the following grounds :—

|| Despatch No. 24, dated 8th March 1860. Vide also Despatches from Home Government, No. 5, dated 12th May 1858, and No. 4, dated 13th October following.

First —That a Coast Canal could not compete successfully with the sea.

Second.—That the Canal from Madras to Doogoorazpatam was in 1856 pronounced to be a failure by the Superintendent.

Third.—That the Southern Canal from the Palar to the Adyar had at the same time attracted no traffic.

Fourth.—That the Canal would be very expensive, and observed that when a canal had been cut from Nellore to Kistnapatam, there would be better means of judging of the expediency of connecting it with the salt water canal along the coast.

6. In its Despatch No. 26, dated 14th May 1860, copy of which is enclosed for the information of the Government of India, the Madras Government replied very fully to the objections raised by the Secretary of State, and strongly urged its former application for permission to commence the work immediately, representing at the same time that, owing to the rise which had taken place in the rates of labor and material, since the Estimate for Rupees 1,39,665 had been prepared, an addition of 20 per cent. or nearly 30,000 Rupees would have to be made thereto. The Secretary of State was, moreover, reminded that as an important part of the Irrigation Company's plan was to connect its works on the Toombuddra with Madras by means of an inland navigation by the Pennar and the Coast Canal, and that as Colonel Cotton had reported on the project of an anicut across the Pennar at the point where it emerges from the gorge through the hills and for a canal from that point to Kistnapatam, it would be incumbent on the Government to accord sanction to the construction of the work as a part of the Company's original scheme, and that when this was done, it would be impossible to persist in refusing the Company the 20 miles of canal from Kistnapatam to Doogoorazpatam if the Government declined to undertake its construction from State funds.

7. The Secretary of State, however, without entering into a discussion on the merits of the East Coast Canal as a whole, or upon a consideration of the grounds adduced by this Government replied (Despatch No. 52, dated 31st August 1860) that he considered it as established that neither the portions of the work which had been executed by private parties, nor those which were under the immediate care of Government, had been properly completed, and that the results had been necessarily unsatisfactory. Sir Charles Wood moreover added that from no comprehensive survey having ever been made, it was impossible for him to sanction the proposal for the extension of the canal to Kistnapatam, and he requested that with a view to the subject being brought before the Home Government in a more mature and better considered form, plans and estimates for the proposed extension of the canal might be submitted together with a map of the whole line from the Palar to Nellore with a longitudinal section of levels and transverse sections of the channels, sufficiently numerous to render the whole intelligible.

8. The Madras Government regretting that the previous exposition of its views had met with such an unfavorable reception, and judging that the opinion formed by the Secretary of State was in some respects erroneous, represented* that the canal from Madras to Doogoorazpatam could not be fairly said to be incomplete; that the Officers who had actually inspected it reported it to be in

* Letter No. 76, dated 24th November 1860.

efficient condition during the driest season of the year; that it was largely used, and the amount of toll collected quite as much as could be expected, or be required from such a work, and more than sufficient for the maintenance of the canal; that the Southern Canal was certainly unfinished, but that this was because it was stopped short in consequence of the restrictive orders of the Government of India, and that it was also incomplete in the sense of not having an effective terminus, but that this too was only for want of money.

9. As regards the Plans and Estimates for the proposed extension and the map, &c., of the whole line from the Palar to Nellore, the Secretary of State was informed that the former had been actually submitted to, and sanctioned both by the Government of India and the Home authorities, and that the time, labor and expense necessary for the preparation of the latter would be merely wasted, as such documents were not at all wanted for the perfection of the canals, and the real and effectual investigation of such details by the Home Government was impracticable.

10. In a subsequent Despatch (No. 65 of 1861) the Madras Government laid before the Secretary of State, agreeably to the instructions contained in his Despatch No. 24 of 1860, two Estimates, one for Rupees 2,08,000 for the construction of a canal from Nellore to Kistnapatam, combining navigation with irrigation, and the other for Rupees 59,600 for irrigation only. Copy of the late Chief Engineer's† letter, No. 327, dated 8th May 1861, pointing out that the salt water canal from Doogoorazpatam to Kistnapatam should first be taken in hand as a continuation of the existing line, was also submitted to the Home Government, together with the Proceedings in this Department No. 1,631, dated 28th August 1861, sanctioning the smaller of the Estimates quoted above.

† Colonel Horsley.

11. In reply to this Despatch, the Secretary of State expressed‡ his approval of the course taken in authorizing the construction of a canal for irrigation only between Kistnapatam and Nellore, and observed, with reference to Colonel Horsley's remark relative to the prior execution of the canal from Doogoorazpatam to Kistnapatam, that the opinion of the Home Government upon the extension of the East Coast Canal had been sufficiently made known in the Despatches marginally noted.

‡ No. 49, dated 9th November 1861.

Nos. 24 and 52 of 1860.

12. In the beginning of the past year, the attention of the Government was again drawn to the expediency of the early extension of the Northern Canal, and as on the re-organization of the Public Works Department of this Presidency in June 1863, the charge of the inland navigation to the north and south of Madras was entrusted to Mr. Kennedy, one of the Special Executive Engineers, that Officer was directed in Proceedings No. 1,742, dated 2nd July 1863, to prepare and submit fresh Plans and Estimates in keeping with the rates now prevailing for a canal from Doogoorazpatam to Kistnapatam to meet the works of the Irrigation Company at that place.

13. With his letter marginally noted, Mr. Kennedy submits the Plans and Estimates called for, and proposes that the alignment of the canal be carried direct to the northward parallel with the coast, instead of to the westward as proposed by Captain Chambers, late Superintendent East Coast Canal, and provided for in the Estimate amounting to Rupees 1,39,665, referred to in paragraph 2.

No. 168, 30th November 1863.

14. Mr. Kennedy urges that the line selected by Captain Chambers would be about a mile longer than that proposed by him, and would probably prove injurious to a considerable area of wet cultivation; and that though requiring lighter cuttings, its cost would be enhanced by compensation for land and damage much beyond the amount allowed for in the Estimate.

15. Mr. Kennedy's Estimate amounts, as stated in paragraph 1, to Rupees 2,35,000, and provides for a waterway 52 feet wide at the surface, with a depth of 3 feet at low tide. No masonry works of any description are proposed, but provision to the extent of Rupees 25,000 is made for turfing the side slopes.

16. The Madras Government is fully satisfied with the plans and estimates prepared by Mr. Kennedy, and believes that the long contemplated extension of the East Coast Canal to the northward will be highly beneficial. The canal will be of great use in bringing salt from the pans about Kistnapatam, and eventually, when the canal from Kistnapatam to Nellore is also completed, from the pans beyond it, to Madras for export into the interior by rail. Even now the demand for salt, valued at about 12 lacs per annum, to be sent by rail, can scarcely be met by the pans about Ennore, and the supply to be got from them will be quite insufficient when the Bangalore branch is finished and the North-West Line advances to Bellary, as by late orders it is under any circumstances to do, and probably to Kurnool and Hyderabad. The Salt revenue of this Presidency has in a few years risen from 60 lacs in 1858-59 to 91 lacs in 1862-63, and may be very largely increased if means be provided for sending salt into the interior by the Madras Railway and its branches; but to this end a large stock will have to be kept up continually at Madras. The southern salt is not available as the Canal stops at the Adyar and probably will never get any further, and it is necessary, therefore, in order to maintain a sufficient supply of that commodity at the Presidency, that all possible facilities should be afforded for the transport

of a much larger quantity from the pans to the north of Madras. Looking to the advantages which may be expected by the extension of the East Coast Canal to Kistnapatam, and seeing that all competent authorities in this Presidency *without exception* are strongly in favor of the work; that the Home Government, as well the Government of India, have already given their general approval and sanction to it, and that the interests of the Irrigation Company's works will be very greatly affected by the completion of the Coast Canal, the Governor in Council confidently hopes that the sanction of His Excellency the Governor General will be readily granted to the Estimate now submitted and for the commencement of operations from the 1st May next from the funds which will be provided for the work in the Budget for 1864-65.

No. 384. Read the following letter from Lieutenant-Colonel J. P. BEADLE, R. E., Officiating Secretary to the Government of India, Public Works Department, to the Secretary to the Government of Fort Saint George, dated 31st December 1863, No. 5,437 :—

SIR,

In reply to your letter No. 3,402, dated 20th November 1863, I am directed to state that the Governor General in Council authorizes the transfer from the head of "Reserve" to that of "Repairs," of the sum of Rupees 4,000 for the maintenance of the Charmady Ghát and Road in the South Canara District.

No. 385. ORDER THEREON, 19th January 1864, No. 189.

Communicated to the Superintending Engineer, 7th Division, with reference to G. O. No. 3,401, dated 20th November 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 386. Read the following letter from Lieutenant-Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 7th January 1864, No. 4,403 :—

SIR,

1 Bill.
1 Letter No. 638, dated 4th January 1864.

1. I have the honor to forward for the sanction of Government the accompanying Bill Rupees 52-2-0, submitted by the Executive Engineer Presidency, on account of the expense incurred in removing the furniture, records, &c., of his Office from the Pantheon Road to the Mount Road.

2. The reason of my troubling Government in this matter is that the Executive Engineer reports that the expenditure incurred "has not been passed by the Controller for want of the special sanction of Government," whereas I should have thought that the authority for the removal granted in G. O. No. 3,332, 16th November 1863, would have sufficed.

3. I request that sanction may be given for the disbursement of the amount Rupees 52-2-0 from the sum Rupees 1,80,000 entered in the current year's Budget for "*Stores.*"

No. 387. ORDER THEREON, 19th January 1864, No. 190.

The Governor in Council sanctions the payment of the amount, Rupees 52-2-0, referred to in this letter from the sum of Rupees 22,000 which has been set apart on account of India freight, landing, &c., charges during the current year.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 388. Read the following :—

No. 2,179.

List of Bills received from the Superintending Engineer, 5th Division, for work executed on emergency, submitted for the sanction of Government.

Audit No.	Date of Bills.	Description of works.	Amount of Bill.	To what year expenditure appertaining.	Date when Bills received.	Remarks.
	1862.		RS. A. P.			
523	April 30th	Constructing drains between Wash-houses and Privy New Dragoon Barracks on the Race Course in the Cantonment of Bangalore.	272 7 0	1861-62.	23rd Dec. 1863.	As the authority quoted in the heading of these Bills, viz., Chapter XXIV, Clause 3 of new Code, is not sufficient, I have the honor to forward them for the sanction of Government. Explanation is given by Captain Goddard and the Superintending
522	July 31st	do. do.	66 11 0	1862-63.	Do.	
			339 2 0			

Engineer in the accompanying Memorandum of remarks. The work has been carried out so long ago that I am afraid it is impossible to get more satisfactory explanation of the transaction.

Madras,
6th January 1864.

(Signed) C. V. WILKIESON, Lieut.-Colonel, R. E.,
Controller and Auditor of P. W. Accounts.

No. 389. ORDER THEREON, 19th January 1864, No. 191.

1. The Bills are sanctioned.

2. The particular attention of the Superintending Engineer, 5th Division, will be requested to the orders contained in paragraph 10 of the Proceedings of Government No. 3,762, dated 19th December 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 390. Read the following :—

List of Bill received from the Superintending Engineer, 8th Division, for work executed on emergency, in the Madura District for the sanction of Government.

Audit No.	Date of Bill.	Description of work.	Amount of Bill.	To what year expenditure appertaining.	Date when received.	Remarks.
	1863.		RS.			
920	April 29th	Constructing branch Treasury at Ramnad.	288	1862-63.	4th Dec. 1863.	Executed on emergency in accordance with the request of the Collector of the District as contained in his letter herewith submitted.

Madras,
7th January 1864.

(Signed) C. V. WILKIESON, Lieut.-Colonel, R. E.,
Controller and Auditor of P. W. Accounts.

No. 391. ORDER THEREON, 19th January 1864, No. 192.

The Bill is sanctioned.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 392. Read the following Endorsement of the Superintending Engineer, 4th Division, dated Madras, 6th January 1864, 4,385 :—

Read the following letter from J. H. DOPPING, Esq., C. E., District Engineer, to the Deputy Chief Engineer, Central Circle, dated Ranepett, 10th October 1862, No. 1,503.

SIR,

I have the honor to acknowledge the receipt of your Proceedings No. 113 of the 9th instant, and to inform you that both Mr. Fraser and I had come to the conclusion after a personal consultation here in July last, that the road from Vencatagherry Cottah to Gooriattum should be abandoned.

* * * *

Submitted to Government with reference to their Proceedings No. 2,392, dated 7th October 1862, and with the Superintending Engineer's concurrence in the suggestion that the road in question should be abandoned.

(Signed) A. J. M. BOILEAU, Lieut.-Colonel, R. E.,
Superintending Engineer, 4th Division.

No. 393. ORDER THEREON, 19th January 1864, No. 193.

1. In his report* on the operations of the Public Works Department during 1862-63, the Collector of North Arcot recommended the abandonment of the road from Gooriattum to Vencatagherry Cottah by the Naikenary Pass, on the grounds that there was a good road to Palmanair by the Synegoonta Pass, and that the Naikenary Ghát was both difficult and costly to make while the tract of country was feverish and unhealthy.

* Dated 18th September 1862.

2. In submitting this report the Board observed that the Collector had shown good grounds for his proposal, but before passing final orders the Government in Proceedings No. 2,392, dated 7th October 1862, requested the then Deputy Chief Engineer, Central Circle, to submit his opinion on the subject.

3. In his Endorsement recorded above the Superintending Engineer, 4th Division, expresses his concurrence in the Collector's suggestion and the Governor in Council accordingly sanctions the abandonment of the road in question.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Read the following papers :—

No. 394. From Lieutenant-Colonel O. W. S. CHAMBERS, R. E., Superintending Engineer, 1st Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Waltair, 7th January 1864, No. 2,022 :—

SIR,

1. T. Ramiah, Táluq Overseer in the Ganjam District, having been granted by me two months' sick leave on the certificate of the Zillah Surgeon at Chicacole, S. Venkatsawmy, late Sub-Overseer in the Ganjam District, has been appointed by me, pending the approval of Government, to act in the sick man's stead.

2. I now do myself the honor of requesting the approval of Government to the above arrangement : Venkatsawmy will draw 30 Rupees per mensem and 20 Rupees travelling allowance whilst holding the acting appointment.

No. 395. From Lieutenant-Colonel E. HEMERY, R. E., Superintending Engineer, 3rd Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Cuddapah, 12th January 1864, No. 258.

SIR,

Táluq Overseer D. Baupiah, Bellary District, having obtained an extension of leave on Medical Certificate up to the 30th April next, I have the honor to report having appointed Aurnachellam, Mudali, late Sub-Overseer, now out of employment, to act as Táluq Overseer from this date subject to the approval of Government.

No. 396. ORDER THEREON, 19th January 1864, No. 194.

Recorded, with reference to G. O. No. 80, dated 9th January 1864.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 397. Read the following letter from Captain E. A. FOORD, R. E., Superintending Engineer, 6th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Tanjore, 21st December 1863, No. 1,394 :—

SIR,

1. I have the honor to forward for sanction two Estimates amounting respectively to Rupees 2,210 and Rupees 1,280 for repairing breaches in the bank of the Weya Condan Channel, and on the road from Tanjore to Trichinopoly. These breaches were caused by the heavy rain and floods in the month of October. The embankments, both of the road and channel, were in good order at the time, but the bridges and calingulahs have not sufficient waterway for the passage of unusually heavy floods and the banks consequently gave way.

2 Estimates.

2. When I passed over the Tanjore road last June, I noticed that several of the bridges were too small, and that additional tunnels were required. Estimates for these works, also for additional arches to the Corayar bridge on the Dindigul road and a calingulah in the bank of the Weya Condan are being prepared. Their cost is estimated at about 8,000 Rupees, and if that sum can be granted from the Reserve Fund, the works may be carried out during the present official year.

3. The cost of repairing the breaches on the Tanjore road and in the Weya Condan bank cannot be met from the repair allowance of the Trichinopoly District, which is only 57,000 Rupees, or little more than one-half the sum given and expended when the works were under the Revenue authorities. I therefore request sanction for the amount of the two Estimates now forwarded, viz., Rupees 3,490, in addition to the repair allowance of the District. The closing of the breaches so as to render the road passable has been commenced in anticipation of the sanction of the Estimate.

No. 398. ORDER THEREON, 19th January 1864, No. 195.

1. The two Estimates, amounting together to Rupees 3,490, for repairing breaches in the bank of the Weya Condan Channel and in the road from Tanjore to Trichinopoly caused by floods in October last are sanctioned.

2. The funds for repairs at the disposal of Government being nearly exhausted application will be made to the Government of India for the transfer of a sufficient sum from the head of "Reserve" to meet the present charge. Meanwhile the Superintending Engineer will continue the prosecution of the work, which the Government approve of his having put in hand at once.

3. The Governor in Council will await the submission of the Estimates referred to in paragraph 2 of the foregoing letter.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Ordered that the following letter be despatched.

No. 399. From Colonel C. A. ORR, R. E., Secretary to the Government of Fort Saint George, Public Works Department, to the Secretary to the Government of India, P. W. D., dated 19th January 1864, No. 196.

SIR,

The sum of Rupees (25,000) twenty-five thousand transferred, under the authority conveyed in your Telegram dated 7th November 1863, from the head of "Reserve" to that of "Repairs," being nearly exhausted, and funds* being now required for the repair of damages caused by floods in October last to the

* Amount of Estimates Rupees 3,490.

Weya Condan Channel and the Tanjore road in the Trichinopoly District, I am directed by the Governor in Council to request the sanction of the Government of India to the transfer of a further sum of Rupees (3,500) three thousand five hundred from the Reserve for the work in question, which it has been found necessary to proceed with in anticipation of sanction.

No. 400. Read the following letter from Lieutenant-Colonel O. W. S. CHAMBERS, R. E., Superintending Engineer, 1st Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Waltair, 7th January 1864, No. 2,020:—

SIR,

In acknowledging the receipt of G. O. No. 3,684 of 14th December 1863, I have the honor to state that the entry of Rupees 98 in the column of "Increase per month" in Statement B, which accompanied my letter No. 149 of 26th November 1863, is a clerical error caused by a 4 being mistaken by a Copyist for a 9: Rupees 48 is the correct amount.

No. 401. ORDER THEREON, 19th January 1864, No. 197.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 402. Read the following Telegram from Colonel BEADLE, Calcutta, to Colonel ORR, Madras, dated 13th January 1864, No. 84:—

Provision for Staging Bungalows should be made in Local Fund Budget in future years.

No. 403. ORDER THEREON, 19th January 1864, No. 198.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 404. Read the following letter from Lieutenant-Colonel H. W. HITCHINS, R. E., Superintending Engineer, 5th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Salem, 22nd December 1863, No. 1,657:—

SIR,

1. With reference to the Proceedings of Government, dated the 26th ultimo, No. 3,476, I have the honor to submit herewith the papers noted in the margin, which were laid before them with the letter from the late Deputy Chief Engineer, Southern Circle, dated the 20th* November 1862, No. 93, and which clearly show how a return of 30 per cent. by increase of Revenue has been promised by the Revenue authorities. I should have sent these papers along with my letter of the 7th idem, No. 1,291, had I not thought that all the points connected with the construction of the proposed Anicut across the Mahinmuttanaddee had been settled, and that the subject simply required to be brought again under the notice of Government to ensure the entry of the work in the Budget.

1 Copy of Collector's letter, dated 27th October 1858, No. 395, with one abstract Statement of Revenue.
1 Detailed Statement of Revenue, dated 3rd November 1858.

* Vide Order of Government, dated 15th December 1862, No. 3,002.

1 Plan.
1 Abstract Estimate.
1 Specification Report.
1 Copy of Collector's letter, dated 27th October 1858, No. 395.
1 Abstract Statement of Revenue.
1 Detailed Statement of Revenue.
1 Original letter from Captain Foord, dated 28th August 1858, No. 94.

2. I observe from the records in this Office, that the subject of this Anicut had engaged the attention of the late District Engineer, Captain Foord, for the past six years, and I am informed by those who accompanied him on his tours of inspection, that all the details of the proposed work occupied much of his time and attention. I cannot doubt the suitability of the works to

attain the object in view, viz., the certainty of affording a full supply of water to numerous tanks in their vicinity, for I have ascertained that there is an earthen dam at the spot where it is proposed to construct the Anicut, and which from being easily breached does not send down the supply channels a sufficient quantity of water to fill the tanks.

3. In my opinion, therefore, the proposed work is admirably adapted to the purpose and as far as I can gather from the records, there is no reason to apprehend that the constructive details have not been fully considered by Captain Foord.

4. In the early part of the next month, I intend visiting that part of the South Arcot District, when I will make further enquiries regarding the tanks and channels to be made dependent on the Anicut in question, should the Government consider all that has been put forward by Captain Foord in his letter† of the 28th August 1858 insufficient, but I request that, in the meantime, orders may be issued for the retention of the work in the outgoing Budget.

† No. 94.

No. 405. ORDER THEREON, 19th January 1864, No. 199.

1. From the papers submitted with the above letter it appears that in the opinion of the Revenue authorities, the return from the proposed Anicut across the Mahinmuttanaddee will be considerably in excess of 30 per cent. upon the estimated cost of the work.

2. The Government approve of the Plan and Estimate, but the execution of the work will be postponed till 1855-56.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 406. Read the following letter from Captain E. A. FOORD, R. E., Superintending Engineer, 6th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Tanjore, 23rd December 1863, No. 1,423:—

SIR,

1. In my letter of the 11th of July, No. 224, I reported that the bunds above the Kordachari bridge and the centrings of the arches had been carried away by a great flood. One arch was uncentred some time before the flood came. Two arches were completed, and enough of the centrings had been removed to prevent injury to the arches when the centrings were swept away. The remaining two arches had not been commenced, but the centrings had been completed and they were totally destroyed. I reported that this accident would only add about 400 Rupees to the cost of the bridge, as the bunds would not be required again, and it would only be necessary to re-build the centrings of the two remaining arches. The work however was carried on under such difficulties during the last month that it was in progress, that its cost considerably exceeded the Estimate, and the supplemental Estimate which I now forward for completing the bridge amounts to Rupees 1,879-13-0.

1 Comparative Statement.

2. If the past season had been an ordinary one, the five arches, of which the bridge consists, might easily have been built by the 1st of May, but there was a succession of freshes in the river from the end of the north-east monsoon to the time of the usual freshes. The work was stopped three times by freshes, and was commenced a fourth time from a desire to complete it, and so connect a large tract of country to the north of the Vettar with the Railway station at Kordachari, and from a not unreasonable expectation that the ordinary freshes would be later than usual, as there had been so much rain in the early part of the year.

3. But, soon after the work was resumed, the river again filled, and at the time the work was stopped for the year, the flood was within a few inches of the height of that of November 1858, which caused so much damage in the Tanjore and Trichinopoly Districts. After the

arches had been commenced, they could not be left in an unfinished state, and it was necessary to carry on the work in the face of all difficulties. The bunds had to be made of unusual height, and to be repaired and strengthened from time to time. It was necessary to construct the centrings very substantially, and as many as four at one time instead of two, as provided in the Estimate, and using the materials of the first two in constructing the next two. A foot bridge had to be constructed for the passage of workmen and materials to the arches, and from the whole bed of the river being covered with water there was no place for storing materials near the work, and the bricklayers and coolies worked at great disadvantage,

4. For these reasons most of the items of the Estimate have been exceeded, particularly that of centrings. As the water has only recently gone down sufficiently to allow of an inspection of the work and of the materials in the bed of the river a correct Estimate for completing the bridge could not be prepared earlier. The cost of completing the bridge is estimated at Rupees 3,612-3-3, and after deducting the value of materials in hand Rupees 1,732-6-3, there remains a sum of Rupees 1,879-13-0 for which sanction is now solicited.

No. 407. ORDER THEREON, 19th January 1864, No. 200.

1. The original Estimate for this work, Rupees 10,900, was sanctioned on* the 8th March 1856. The prosecution of the work was delayed by the restriction on expenditure in 1857; and on the 31st December 1861, a further sum of Rupees 1,050 was sanctioned† on the score of the original rates being insufficient. Subsequently, a sum of Rupees 1,650 was‡ sanctioned for forming approaches, which were not provided for in the original Estimate.

* G. O. No. 355.

† G. O. No. 2,451.

‡ G O. No. 2,196, 15th Sept. 1862.

2. During the past season the work has suffered greatly from the frequent and untimely freshes in the river, and a supplemental Estimate of Rupees 2,330 was consequently sanctioned on§ the 20th July last. Before, however, this sanction could take effect, another accident, involving considerable damage to the bridge works, was reported by the Superintending Engineer to have occurred on the 30th June, and he now forwards for sanction a further supplemental Estimate amounting to Rupees 1,880.

§ G. O. No. 1,956.

3. Captain Foord, represents that this large addition to the cost of the bridge has been caused by the unusual difficulties with which the Executive Engineer has had to contend. He states that there was a succession of freshes in the river during the whole of the last working season, and that, from anxiety to complete the bridge before the ordinary annual floods, the work, especially during June last, was carried on under great disadvantages, and at a cost which considerably exceeded the estimated rates.

4. Under these circumstances, the Government has no alternative but to sanction the Estimate now before them. They trust that the work will now be soon finished. The necessary funds‖ will be placed at the Superintending Engineer's disposal from the Reserve Fund for the current year.

‖ Rupees 1,880.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 408. Read the following letter from Captain O. W. S. CHAMBERS, R. E., Superintending Engineer, 1st Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Camp Pendoor, 2nd December 1863, No. 1,805 :—

SIR,

1. I do myself the honor of submitting the following for the necessary orders of Government.

1 Mr. Carmichael's original letter No. 655, of 24th August 1863.
1 Copy of Comptroller's letter, No. 1,454 of 10th September 1863.

2. The Collector of Vizagapatam requested me to place at his disposal for expenditure* in the current year the amount allotted in the Budget for 1863-64 for repairs to Salt works. The sum entered in Part

* By the Salt Deputy Collector.

II of the Budget is Rupees 1,940, for both special and current repairs, which amount has accordingly been transferred to the Collector's credit by cheques after deducting the expenditure already incurred by this Department.

3. In doing so, I requested Mr. Carmichael to furnish me with the copies of Estimates sanctioned by him for execution by his Salt Deputy Collector, to enable me to enter in my "Returns of Appropriations" the several works on which the amount transferred will be spent.

Collector's letter No. 655 of 24th August 1863, is herewith forwarded.

4. But Mr. Carmichael considers it unnecessary to send me the Estimates made out by his Department; a Bill after a work is completed being deemed by him sufficient, and refers me to Government Orders dated 22nd March and 1st April 1862, Nos. 640 and 640, respectively, from which I can only see that the execution of repairs to Salt works and the power† of sanctioning Estimates of repairs of this nature have been transferred to the Collectors.

† Heretofore vested in Deputy Chief Engineers.

5. As the Collectors have still to furnish this Department with monthly accounts, &c., and as under the present system of allotting funds, I am obliged to show in my "Returns of Appropriations" every work on which an expenditure takes place, I beg to be favored with instructions as to how I am to act in the matter now brought to the notice of Government.

Copy of Comptroller's letter No. 1,454 of 10th September 1863.

6. In conclusion I beg to say that a reference on the subject has been made to the Comptroller, who coincides with me in thinking that the Estimates for Salt works should be embodied in my Returns, and expresses an opinion that an Order of Government on this subject should be applied for by me.

From Lieutenant-Colonel C. V. WILKIESON, R. E., Controller and Auditor of Public Works Accounts, to Captain O. W. S. CHAMBERS, R. E., Superintending Engineer, 1st Division, dated Madras, 10th September 1863, No. 1,454 :—

SIR,

1. I have the honor, with reference to your letter No. 968, dated 31st August 1863, to remark that it is my opinion that the subject therein referred to should be put before Government for their orders. G. O. No. 640, dated 1st April 1862, does not, I think, in any way enforce the necessity of repairs to Salt works being carried out by the Revenue authorities. It only delegates to them the power of sanctioning Estimates of repairs of such nature up to 500 Rupees, a power heretofore vested in Deputy Chief Engineers of Circles.

2. If this view of the matter be not erroneous, Estimates should be prepared by the Public Works Officers, sanctioned by the local Revenue authorities, and the work carried out by the former, unless, indeed, where necessity or the interests of the public service require that the latter should carry out the work.

3. But the work, whether carried out by the Revenue authorities, or the Estimate whether prepared by the same Department, the latter document should have the Superintending Engineer's signature and disbursements from it be embodied in the monthly Appropriations Returns and the Progress Reports of the 1st Division.

(True Copy.)

(Signed) O. W. S. CHAMBERS, Captain, R. E.,
Superintending Engineer, 1st Division.

No. 409. ORDER THEREON, 19th January 1864, No. 201.

1. The views expressed in the letter from the Controller and Auditor of Public Works Accounts submitted with that recorded above are correct.

2. As the information applied for by the Superintending Engineer is required for the preparation of the Appropriation Return called for by the Government of India, the Collector of Vizagapatam will be requested to furnish it without delay.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 410.

Read the following :—

No. 2,181.

List of a Bill received from the Superintending Engineer of the 1st Division for a work executed on emergency in the Vizagapatam District, submitted for the sanction of Government.

Audit No.	Date of Bill.	Description of Work.	Amount.	To what year expenditure appertaining.	Date of receipt of the Bill.	Remarks.
	1863.		RS. A. P.			
721	13th March	Constructing two additional rooms to the Married Men's Quarters lately occupied by the Detachment of H. M.'s 105th F. M. L. I. at Waltair.	178 6 8	1861-62.	First received 29th July 1863. Returned 29th Sept. 1863. Received again 3rd December 1863.	From the accompanying letter from the Superintending Engineer, 1st Division, it will be observed that this work was carried out by the orders of Major Stewart, late District Engineer of Vizagapatam, at the request of the Major General Commanding the Division. Captain Chambers is of opinion, that the Bill now submitted to Government, may be passed, as this work was executed in accordance with Chapter XXIV, paragraph 12, Clause II of the Public Works Code.

Chepauk,
6*th January* 1864.

(Signed) C. V. WILKIESON, Lieut-Colonel, R. E.,
Controller and Auditor of P. W. Accounts.

No. 411.

ORDER THEREON, 19th January 1864, No. 202.

The Bill is sanctioned.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 412. Read the following Endorsement of the Superintending Engineer, 8th Division, dated Trichinopoly, 28th December 1863, No. 1,590 :—

Read the following letter from Captain L. PAXTON, Executive Engineer, 1st Range, Tinnevelly District, to Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, dated Palamcotta, 7th December 1863, No. 261.

SIR,

1. I have the honor to inform you that in accordance with the instructions of Government, No. 3,066, December 22nd 1862, I have continued my experiments with the horizontal wind-mill on the model, and subsequently with a small machine of working size : the results of the latter have not, I am sorry to say, proved so satisfactory as I had anticipated from the working of the model, and unless further alterations may remove the existing defects, I do not think that the wind-mill can be worked with advantage.

1 Account.

2. In the model first made there were four horizontal arms, 15 inches long, and carrying frames 4½ inches deep, the sails commencing at 3 inches from the central axis ; the sails were of light cloth with the apparatus for furling them described in my former report ; the arms were straight, the sails being divided in two horizontally, to allow of their opening and closing quickly.

3. This model worked fairly in light winds, but in the south-west monsoon, when the force of the wind was greater, the sail acquired a fluttering motion, which caused great resistance in coming up against the wind ; the sails also constantly blew over the back of the arms, to avoid this, rigid sails were tried with somewhat better success, the sails being made of cloth stretched over frames or coated with oil paint, the weight of these sails, however, increased the resistance to their opening, when coming up to the wind. Besides this the wind did not seem to retain its action on the sails for a sufficient time, even when six sails were substituted for four, a slight hesitation taking place before each sail came up to the wind.

4. To obviate this a change was made in the shape of the arms, by bending them, which greatly increased the regularity of the motion, as well as the force. As the weight of the sails still told objectionably in their opening as they came up against the wind, a pulley was placed on the central pole, between each pair of arms, and the sails attached to a cord running over it, of such a length that on one sail closing, the opposite necessarily opened, this did not, however, prove very effectual (except in rendering the motion of the sails more easy, and avoiding wear) as the leverage of the descending sail decreased as the opposite one opened.

5. The model in this stage had considerable working force, and in the strong winds prevailing during the south-west monsoon made from 10 to 40 revolutions per minute, with a weight of $\frac{3}{4}$ of a lb. on a wheel 4 inches in diameter equivalent to from $7\frac{1}{2}$ to 30 lbs. raised 1 foot per minute, the average being probably 20 turns per minute during 10 hours of the day, giving about $5\frac{1}{3}$ cubic yards of water raised 1 foot per diem.

6. I subsequently constructed a machine of twelve times the size of the model, with sails having an area of 144 times those of the model, which would, had the work done by it been proportioned to the areas, as I imagined would be the case, have given about sixty cubic yards per diem raised to a height of twelve feet, an amount more than four times what it proved capable of performing.

7. The mill was constructed of such work as is done by the better class of village Carpenters, good timber being used for the centre post collar, struts, and wheels, the arms being made of jungle wood poles, and bamboos, and the sails of gunny coated with tar, each sail being further strengthened by a light frame of bamboo.

8. The sails were arranged in two sets of four, one above the other, and at an angle of 45° with each other, which appeared to expose a greater amount of surface to the wind's force than six sails of the whole depth, this advantage was, however, apparently more than counterbalanced by the increased quantity of woodwork which caused much resistance coming to the wind and probably was one cause of the mill not working satisfactorily.

9. The great causes of failure, however, appeared to me to be the difficulty of accurately counterpoising the sails, so as to reduce the resistance of the opening of the sails to a minimum, and the great amount of friction caused by the rough work done by common Carpenters not used to the construction of wheel work. To this may be added the stretching of the rope used and the frequent injury done to the sail by sudden gusts of wind.

10. These difficulties might perhaps be got over, but the expense would be so much increased, that I am inclined to believe that the ordinary form of wind-mill might be constructed as cheaply and equally effective.

11. To meet the continual change of force to which all wind-mills are liable, I tried a method for regulating the load according to the speed so that even in light winds some work might be done. This arrangement consisted in a valve at the bottom of the buckets closed by the force of the water escaping, the valve itself being made of a light material, capable of floating, so that if the bucket was raised slowly from the water, the valve would remain open until the bucket was nearly out of the water, whilst if withdrawn quickly it would at once close and the bucket come up full, this plan of regulating the quantity of water drawn, according to the speed of the mill, might perhaps be useful with wind-mills of a better class employed in drawing water, but would, I think, be too complicated for ordinary village work.

12. The total expenditure on the experiment has been Rupees 175-9-3 as per accompanying account.

Submitted for the information of Government, with reference to Government Order No. 3,066, dated 22nd December 1862.

(Signed) F. J. MOBERLY, Captain, R. E.,
Superintending Engineer, 8th Division.

No. 413. ORDER THEREON, 19th January 1864, No. 203.

1. The Governor in Council regrets that the results of the experiments made by Captain Paxton in pursuance of G. O. No. 3,066, dated 22nd December 1862, have not proved satisfactory.

2. The expenditure* incurred will be charged against the current year's Reserve.

* Rupees 175-9-3.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 414. Proceedings of the Madras Government, dated 19th January 1864, No. 204:—

The Governor in Council resolves to transfer to the Reserve Fund a further sum of Rupees 12,000 from the amount provided for "Stores" in the current year's Budget.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 415. Read the following letter from Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Coonoor, 15th January 1864, No. 304:—

SIR,

In amendment of my statement in letter No. 279 of 31st December, I have the honor to report that I have subsequently ascertained from Lieutenant Filgate his inability to proceed with any bridge work in his Range in addition to what has already been undertaken. The Cuddumbella and Cubbinhollay bridges must therefore stand over till next year.

No. 416. ORDER THEREON, 19th January 1864, No. 205.

Under the circumstances represented in the foregoing letter, the sum of Rupees 6,139 sanctioned in G. O. No. 134, dated 15th January 1864, will be re-credited to the Reserve Fund.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 417. Read the following Proceedings of the Madras Government in the Public Department:—

Resolving to entrust to the Municipal Commissioners the work of constructing a raised foot-way for foot passengers along the South Beach Road from the Marine Villa to Saint Thomé, Presidency District, and stating that the charge, Rupees 4,216, will be met from the Reserve for Unforeseen Contingencies, F IX. } (Here enter 13th January 1864, No. 35.)

No. 418. ORDER THEREON, 20th January 1864, No. 206.

Communicated to the Superintending Engineer, 4th Division, for information.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 419. Read the following Proceedings of the Madras Government in the Public Department:—

Sanctioning a grant of Rupees 1,000 in aid of the Bunds constructed, by private subscriptions, across the Cooni at Chetputt, North Arcot District, with a view to storing fresh water for the hot season, and stating that the amount will be met from the Reserve for Unforeseen Contingencies, F IX. } (Here enter 13th January 1864, No. 36.)

No. 420. ORDER THEREON, 20th January 1864, No. 207.

Communicated to the Superintending Engineer, 4th Division, for information.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 421. Read the following Proceedings of the Madras Government in the Revenue Department:—

Stating that the charge for the Collecting Establishment on Cochrane's Canal must be entered in the Public Works Budget, pending a reference to the Supreme Government. } (Here enter 12th January 1864, No. 68.)

No. 422. ORDER THEREON, 20th January 1864, No. 208.

Communicated to the Superintending Engineer, 4th Division, and to the Controller and Auditor of Public Works Accounts.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 423. Read the following Proceedings of the Madras Government, in the Revenue Department, dated 15th January 1864, No. 95:—

Read the following letter from the Acting Consulting Engineer for Irrigation and Canal Company.

Forwards for the consideration of Government two letters, one from the Chief Engineer of the Company and the other from the Collector of Kurnool, relative to the distributing channels and the quantity of water required per acre. } (Here enter 11th September 1863, No. 62.)

The Government consider that one cubic yard of water per hour per acre would be altogether insufficient, but the question is one that can only be settled by actual experiment. Colonel Ludlow is requested to make arrangements with Colonel Cotton, the Superintending Engineer and the Collectors of the Districts through which the Irrigation Company's Canal will pass for a series of careful experiments, as soon as water is available. Meanwhile, every precaution should be taken to prevent wilful waste of water by the Ryots.

(True Extract.)

(Signed) J. D. SIM,
Secretary to Government.

No. 424. ORDER THEREON, 20th January 1864, No. 209.

Communicated to the Consulting Engineer, Irrigation and Canal Company.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 425. Read the following letter from Lieutenant-Colonel A. C. PEARS, Postmaster General, Madras, to the Honorable A. J. ARBUTHNOT, Chief Secretary to Government, Fort Saint George, dated Madras, 24th December 1863, No. 5,590:—

SIR,

1. I have the honor to state, for the information of His Excellency the Governor in Council, that I have submitted a recommendation to the Director General of the Post Office in India for the transfer of the portion of the Mail Cart Establishment on the road between Tindevanum and Trichinopoly to the road between Salem and Trichinopoly, by the carrying out of which arrangement I anticipate a gain in the time of the transit of the Mails as well as a saving in the cost of Establishment, and I am in hopes of receiving sanction very shortly.

2. In March 1861, the Engineer reported favorably of the latter named road, but I have been informed by parties who had recently travelled over it that it is in a very bad condition at present. As this will interfere with the arrangement referred to, I beg that orders may be passed for the improvement of the road in question at an early date.

Transferred to the Public Works Department.

(Signed) A. J. ARBUTHNOT,
Chief Secretary.

30th December 1863.

No. 426. ORDER THEREON, 20th January 1864, No. 210.

1. Communicated to the Superintending Engineers, 5th and 6th Divisions, with a request that they will severally report on the condition of the portions of road between Salem and Trichinopoly lying within the limits of their Divisions.

2. It is observed that an allowance of Rupees 20,000* has been granted for the maintenance of the above line, and that in the Order† marginally noted a special grant of Rupees 8,000 was made for the improvement of the portion within the limits of the Trichinopoly District.

* Rupees 10,000 in Salem limits
Do. 10,000 in Trichinopoly limits.

† 24th December 1861, No. 2,366.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 427. Read the following Proceedings of the Madras Government in the Educational Department:—

Calling for a report as to the progress made in preparing the revised Plans and Estimates for the Lawrence Asylum at Ootacamund, and also as to what has been done in the way of levelling the site, collection of materials, and other preliminary work. } (Here enter 8th January 1864, No. 7.)

No. 428. ORDER THEREON, 20th January 1864, No. 211.

Communicated to the Superintending Engineer, 7th Division, who will be requested to report on the points referred to in paragraph 2, and to state whether any portion of the amount, viz., Rupees 800, sanctioned from the current year's Reserve in the Orders marginally noted, has been expended.

No. 3,715, 16th December 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 429.

Read the following :—

List of Bill received from the Superintending Engineer, 7th Division, for the South Canara District, submitted for the sanction of Government, which exceeds its Estimate by more than 5 per cent.

Audit No.	Date of Bill.	Description of work.	Amount of Estimate.	Amount of Bill.	Excess.	Percentage of Excess.	To what year expenditure appertaining.	Date when received.	Remarks.
				RS. A. P.	RS. A. P.				
			Amount of last Bill	4,071 0 3					
			Do. per sent bill	2,134 4 4					
368	1863. July 17th	Annual repairs to Colloor road Circuit	5,798 0 0	6,205 4 7	407 4 7	$7\frac{1}{16}$	1862-63	Received on the 1st Sept. 1863, returned 15th do. Received back 1st Dec. 1863, with letter of explanation, dated 28th September 1863.	The cause of excess expenditure over the Estimate for this work is fully explained by the Superintending Engineer, 7th Division, in his letter, dated 28th Sept. 1863, No. 157, herewith submitted.

Madras,
6th January 1864.

(Signed) C. V. WILKIESON, Lieut.-Colonel, R. E.,
Controller and Auditor of P. W. Accounts.

No. 430. ORDER THEREON, 20th January 1864, No. 212.

Under the explanation afforded by the Superintending Engineer, 7th Division, the Governor in Council sanctions the Bill submitted with the foregoing letter from the Controller and Auditor of Public Works Accounts.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 431. Read the following Proceedings of the Madras Government in the Judicial Department:—

Granting authority for the Regimental Hospital at Russelcondah, at present occupied by the Tahsildar's Cutcherry and the District Moonsiff's Court, being converted into a Jail for Khonds and other Hill prisoners, and stating that a new Táluq Cutcherry comprising accommodation merely for the Tahsildar's Office, his records and treasury, will be built on the site proposed by the Junior Assistant Agent to the Governor in Ganjam. } (Here enter 11th January 1864, No. 32.)

No. 432. ORDER THEREON, 20th January 1864, No. 213.

Communicated to the Superintending Engineer, 1st Division, for information and guidance with reference to G. O. No. 2,278, dated 13th August 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 433. Read the following letter from Colonel S. O. E. LUDLOW, Consulting Engineer for Irrigation and Canal Company, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Saint Thomé, 5th January 1864, No. 128 :—

SIR,

1. In the accompanying letter* the Agent submits for sanction Plan and Estimate amounting to Rupees 2,240 for an Office at Jupaud in the Nagatoor Division.

* No. 1,550 of 21st November 1863.

2. The Chief Engineer states that this is an important position for the establishment of a traffic station, and I therefore conclude that the building will eventually be used as a traffic Office, but for the present it is intended to serve as an Office for the Engineer superintending the works in its neighbourhood.

3. Under these circumstances, I beg to recommend that the accompanying Plan and Estimate be sanctioned by Government.

No. 434. ORDER THEREON, 20th January 1864, No. 214.

The Estimate submitted with this letter, is sanctioned.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 435. Read the following letter from Lieutenant-Colonel E. HEMERY, R. E., Superintending Engineer, 3rd Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Cuddapah, 6th January 1864, No. 250 :—

SIR,

1. I have the honor to submit the following report on the progress of work on the road now under construction from Cuddapah to Nundial, in the Kurnool District.

Enclosure 1.

2. From Cuddapah to the 25th mile stone at Chintagunta, the road is completed with the exception of three tunnels and a small bridge now in progress.

3. From Chintagunta to the 30th mile stone at Dúvúr, the work is well advanced and will be completed by the end of this month.

4. Between Dúvúr and the Kurnool frontier, a distance of ten miles, little has as yet been done, but Mr. Overseer Howell hopes to complete this portion by the end of April.

5. I regret my inability to report so favorably on the work in the Kurnool District, and the unsatisfactory state of this road is owing, partly to radical defects in the sanctioned Estimate, and partly to bad superintendence.

6. The Estimate allows for raising a bank through black cotton soil ⅝ths of a yard high, covered with 4½ inches of gravel. Now, gravel over black cotton soil never can make a good road; the whole mass is ploughed up by traffic, and after one monsoon, the new road is much rougher than the old tracks at its side. A road over black cotton soil *must* be metalled, or else it had better be left alone altogether, for it is impossible to make a cheap and at the same time a durable road through such soil.

7. The Estimate includes no item as compensation for land taken up, nor for tools.

8. The work has been carried out under the direct superintendence of Táluq Overseer T. Iyavu Moodelly, Mr. Paynter being Range Officer up to the 10th October last, when he was relieved by Mr. Supervisor Plummer, who forwarded such an unfavorable report on the work hitherto performed, that I took the very first opportunity of inspecting the whole line from the Cuddapah frontier at Chagalmarry to Nundial.

9. From a verbal report made to me by Mr. Paynter at Kurnool in July last, I fully expected to find the first twelve miles and a half completed, but such is not the case; there is a break of half a mile not gravelled at all, and no portion of this distance has been rammed.

10. The accounts show an excess of Rupees 2,233-8-0 on earthwork alone on this portion, but the road is nowhere more than seven yards broad; and in average height is less than the dimension entered in the Estimate. A thin layer of gravel has been spead over the whole width of the road which is fast wearing into ruts. The full amount allowed in the Estimate for gravelling the first 12½ miles has been expended, although the Overseer acknowledges having for a distance of six miles opened only three gravel pits and having taken the rest of the gravel from the side channels, the masonry of the tunnels is simply disgraceful, and I cannot understand how Mr. Paynter can have passed such work.

11. It is impossible that the Overseer's work can have been properly checked, but as he has vouchers for each item expended, I am of opinion that it would be useless prosecuting him. I have however suspended him from the 1st instant, and strongly recommend his dismissal for the second time, from the Department.

12. I beg herewith to enclose for the information of Government, extracts from a letter from Mr. Dopping, under whom Iyavu Moodelly served in North Arcot, and it is evident that when Captain Beatty, late Acting District Engineer, Kurnool, recommended him to me for promotion to Táluq Overseer, on the re-organization of the Department, he could not have been aware of Iyavu Moodelly's antecedents.

13. To fill up the vacancy thus caused in the Kurnool District, I propose making the following arrangements.

14. Mr. Táluq Overseer Skipp, now in charge of the Markapúr Range, has suffered much from fever contracted on the Manteral Ghát, where he has been employed for three successive seasons; considering him fairly entitled to a change, I propose removing him to the Sirawell Táluq under Mr. Supervisor Plummer, vice Iyavu Moodelly, and I would beg the sanction of Government to the appointment of C. Murgasem Moodelly as Táluq Overseer of Markapúr.

15. Murgasem was a passed Sub-Overseer in the Cuddapah District until the dismissal of all men of that grade on the 31st March last; as Sub-Overseer he gave great satisfaction and was highly spoken of by Mr. Supervisor Lewis, lately appointed to the Markapúr Range, who will be very glad to get Murgasem under him again as Táluq Overseer.

No. 436. ORDER THEREON, 20th January 1864, No. 215.

1. Under the circumstances represented, the Governor in Council approves of the dismissal of Táluq Overseer T. Iyavu Moodelly and of the appointment in his stead of late Sub-Overseer C. Murgasem Moodelly.

2. The Superintending Engineer, 5th Division, will be requested to call upon Mr. Paynter for an explanation of the lax supervision exercised by him over the proceedings of Overseer Iyavu Moodelly, and of the circumstances under which he passed work executed under the orders of that subordinate and now reported by Colonel Hemery to be "simply disgraceful."

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 437. Read the following letter from Captain F. J. MOBERLY, R. E, Superintending Engineer, 8th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Cutcharayenputty, 19th December 1863, No. 1,558 :—

SIR,

1. Referring to Notification No. 119, published by His Excellency the Commander-in-Chief at page 1,004 of the "Fort Saint George Gazette" of the 8th December 1863, I have the honor to submit for the consideration of Government, that it appears that the members of the Department Public Works are now the only persons who are limited in the use they can make of the Casual Leave which they are allowed in the late Chief Engineer's Circular No. LXX, dated 7th January 1862.

2. The limit, I may observe, practically prevents a Superintending Engineer (as under the old system a District Engineer) availing himself of any casual leave, as he can go to any part of his Division without leave.

3. I trust, therefore, that the Government will be pleased to remove this restriction.

4. I take the opportunity also of asking whether Superintending Engineers can grant casual leave to themselves, or must apply to Government, which would cause such delay as frequently to render the leave useless.

Referred to the Controller and Auditor Public Works Accounts for report, as to whether there is any objection to the removal of the restriction imposed in the Chief Engineer's Standing Circular No. XLIV, dated 17th September 1862.

Chepauk,
8th January 1864.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government, D.P.W.

There appears to be no objection to the removal of the restriction above referred to.

(Signed) C. V. WILKIESON, Lieut.-Colonel, R. E.,
Controller and Auditor of P. W. Accounts.

9th January 1864.

No. 438. ORDER THEREON, 20th January 1864, No. 216.

1. Under the circumstances represented, the Governor in Council is pleased to remove the restriction imposed in the Chief Engineer's Circular No. XLIV, dated 17th September 1862.

2. Ordinarily, in the event of Superintending Engineers requiring casual leave, the previous sanction of Government should be obtained; but in cases of extreme urgency, they may avail themselves of the indulgence, reporting the circumstance for the information of Government.

3. The particular attention of the Superintending Engineers will be requested to the remarks in paragraph 18 of the Chief Engineer's Circular No. LXX of 1861-62.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 439. Read the following letter from Colonel S. O. E. LUDLOW, Consulting Engineer for Irrigation and Canal Company, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Saint Thomé, 8th January 1864, No. 130:—

SIR,

I have the honor to request the sanction of Government to the accompanying Plans and Estimate received from the Chief Engineer through the Agent,* amounting to Rupees 654 for two escape channels for culverts Nos. 5 and 6 in the 5th portion of the Company's Main Channel.

* With his No. 1,871 of the 6th January 1864, accompanying.

No. 440. ORDER THEREON, 20th January 1864, No. 217.

Sanctioned.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 441. Read the following Proceedings of the Board of Revenue, dated 22nd December 1863, No. 8,108:—

Read the following letter from H. MORRIS, Esq, Acting Collector of the Godavery District, to W. HUDLESTON, Esq., Secretary to the Board of Revenue, dated Cocanada, 22nd October 1863, No. 349.

SIR,

1. I have the honor to submit a report on the Public Works executed in this District during the official year 1862-63, accompanied by a Statement showing the expenditure on those works compared with that of the preceding year.

This Statement will explain the progress made, and it will be necessary for me only to add a few remarks on the principal works, and to express my opinion regarding their effect on the welfare of the people and the country.

2. A large portion of the sum sanctioned for the improvement of the Cocanada Harbour has been expended during the year in dredging the river, and in strengthening the sides of the river with stone groynes. The Cocanada Light House was raised twenty-four feet, but the Estimate proved insufficient, and the work had to be suspended on the last day of December. Cocanada is one of the most important Commercial Towns on the Eastern Coast, and it is absolutely necessary that the harbour should be improved as much as the resources of the Public Works Department will permit. Both the imports and exports exceeded those of the previous year, and I hope that, the communications between this District and the Kistna District being nearly complete, the commerce of the port will considerably increase.

3. The Godavery Anicut was raised two feet at a cost of upwards of Rupees 70,000. The work appears to be extremely solid and compact, and will be the means of strengthening the important structure upon which the irrigation of the whole District depends The Godavery lately rose to a height almost as great as that attained by the peculiarly destructive fresh which occurred two years ago: but the Anicut and the subordinate Engineering works appear to have borne the strain most admirably.

4. A Canal was opened from the head of the Samulcotta Canal to the quarry at Gudipalli, and it has been of great use in supplying material for the work at the Anicut.

5. One of the most important works that has been carried on during the year is the Ellore High Level Canal, which is to connect the waters of the Kistna and the Godavery. It has been vigorously prosecuted, and is now, I believe, nearly completed. It has already exercised considerable influence on the commerce of Cocanada, a great deal of Cotton having been brought by that route from the neighbourhood of Guntoor for exportation at this place.

6. Much care and pains have been bestowed by the Engineer Officers on the preservation and repair of Canals, in dredging and clearing these important sources of communication, and in strengthening the embankments of the river.

7. Among other useful works a road has been constructed between Cocanada and the Salt Pans at Karapa, which will be of great service, if it stands the violence of the weather.

8. A station house has been built at Peddaporc, and a great number of huts have been raised in various places for the comfort and convenience of the Constabulary.

9. In conclusion, I would press on the Board the necessity of using all their influence for the extension and completion of all the works connected with the Godavery Anicut, which has already conferred great benefits on the people of the District, and may yet increase them to a considerable degree. Much has already been done, but much still remains to be done, before the whole scheme of Godavery irrigation will be complete.

10. I hope that I have prepared this report in accordance with the wishes of the Board; but, as I stated in a previous communication, this is the first report of the kind which has been submitted from this District.

ENCLOSURE No. 1.

ABSTRACT.—Report on Public Works in the Godavery District for 1862-63.

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1. Ordered that the above Report be submitted for the information of Government.

2. The following Abstract of the Statement accompanying Mr. Morris's Report, shows that, a total sum of nearly 6 lacs was expended under the two general heads of New Works and Repairs in the year 1862-63, exceeding the expenditure of 1861-62 by upwards of a lac and thirty thousand Rupees. The only minor heads under which there was less expenditure in 1862-63, are Irrigation and building Repairs.

ABSTRACT.

Items.	Actual expenditure in 1861-62.	Actual expenditure in 1862-63.	Increase or Decrease.
New Works.			
Irrigation	97,310	2,11,533	+1,14,223
Communications	47,900	63,773	+ 15,873
Buildings	1,020	11,931	+ 10,911
Total New Works...	1,46,230	2,87,237	+1,41,007
Repairs.			
Irrigation	2,29,089	1,90,711	— 38,378
Communications	84,851	1,17,507	+ 32,656
Buildings	7,266	4,540	— 2,726
Total Repairs...	3,21,206	3,12,758	— 8,448
Total New Works and Repairs ...	4,67,436	5,99,995	+1,32,559

3. Referring to the concluding paragraph of Mr. Morris's Report, the Board request that an abstract in the above form may be included in the body of future reports. The object in view in receiving these reports is to ascertain that Collectors are satisfied with the progress of the works under execution, and to give them an opportunity of stating how far in their opinion the needs of their Districts are met by the operations of the Department Public Works.

(A true Copy and Extract.)

(Signed) W. HUDLESTON, *Secretary.*

No. 442. ORDER THEREON, 20th January 1864, No. 218.

Communicated to the Superintending Engineer, 1st Division.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 443. Read the following Memorandum from the Superintending Engineer, 4th Division, dated Madras, 14th January 1864, No. 4,499 :—

Read the following letter from R. KENNEDY, Esq., Special Executive Engineer, to Lieutenant-Colonel A. J. M. BOILEAU, R, E., Superintending Engineer, 4th Division, dated Adyar, 7th January 1864, No. 196.

SIR,

1. As the rains have damaged the Southern Canal more than the Northern one, and as the amounts still available for expenditure are, on the Southern Canal Rupees 826-14-0 and on the Northern Canal Rupees 1,809-14-9, I have the honor to request you will obtain permission for me to spend a portion of the amount allotted to the Northern Canal, upon the Southern branch where there is a more pressing necessity for its application.

2. Sanction for this is required as the two Canals' allowances are entered separately in the Budget.

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1 Letter from Executive Engineer, Adyar, No. 196, dated 7th January 1864.

1. Submitted to Government with a recommendation that the arrangement suggested by Mr. Executive Engineer Kennedy, may be authorized.

2. The Budget allotment for the East Coast Canal and expenditure thereon up to the 30th ultimo are as follows :—

	Budget allotment.	Expenditure up to 31st December 1863.
Southern Canal from Madras to Palaur river (40 miles).	Rs. 8,000	7,173 2 0
Northern Canal from the Basin to the boundary of the Madras limits (58 miles).	,, 5,800	3,990 1 3

(Signed) A. J. M. BOILEAU, Colonel, R. E.,
Superintending Engineer, 4th Division.

No. 444. ORDER THEREON, 20th January 1864, No. 219.

The arrangement proposed by the Superintending Engineer, 4th Division, is approved on the understanding that the total amount allotted for the Northern and Southern Canals shall not be exceeded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 445. Read the following letter from Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Coonoor, 15th January 1864, No. 302 :—

SIR,

1. With reference to paragraph 5 of the Order of Government No. 66, dated 8th instant, I have the honor to state that the only unappropriated repair allotment in Malabar, from which the two Estimates for alterations to the Lightning Conductors at Cannanore and Malliapuram (amounting to Rupees 390 and Rupees 80 respectively) can be without inconvenience defrayed is that for " Accommodation for Troops," Rupees 3,358.

2. The amount of Estimate for altering the Conductor at Mangalore (Rupees 146) can be met by appropriating Rupees 15 from the as yet untouched allotment of Rupees 25 for " Light Houses" and Rupees 131 from the unspent balance of Rupees 166, remaining from the allotment of Rupees 209 for " Boats, Bridges and Ferries."

No. 446. ORDER THEREON, 20th January 1864, No. 220.

No. 151, 15th January 1864.

1. From the Orders marginally noted, the Superintending Engineer, 7th Division, will observe that the Estimate for alterations to the Lightning Conductors attached to the Magazine at Mangalore has been sanctioned from the current year's Reserve.

* Rupees 390
" 80

2. The cost* of the works referred to in paragraph 1 of this letter cannot be met from the allotment for repairs. Lieutenant-Colonel Walker will therefore be good enough to report whether the amounts required cannot be met from savings in the allotments for new works. As the Reserve is nearly exhausted, the Government is reluctant to allot funds from that source at present.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 447. Read the following letter from Lieutenant-Colonel H. W. HITCHINS, R. E., Superintending Engineer, 5th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Cuddalore, 13th January 1864, No. 1,728 :—

SIR,

With reference to paragraph 2 of the Proceedings of the Government, dated the 23rd ultimo, No. 3,803, I have the honor to report that the cost of enclosing a piece of waste ground to the Rest House at Tripatur, viz., Rupees 62, can be met from the unappropriated balance* of the sum of Rupees 10,000, being a portion of the amount allotted for the Cuddalore Court House which is not required.

* *Portion of the allotment for the Cuddalore Court House not required.*

		RS.
Order of Government, dated 13th November 1863, No. 3,289.		10,000
Do. do...	3,910	
Do. dated 7th Dec. 1863, No. 3,595	3,040	
Letter to Government, dated 24th December 1863, No. 1,689	690	
Do. dated January 1864, No 1,727. ...	350	
		7,990
		2,010

No. 448. ORDER THEREON, 21st January 1864, No. 221.

Approved.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 449. Read the following letter from Lieutenant-Colonel C. V. WILKIESON, R. E., Controller and Auditor of Public Works Accounts, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 13th January 1864, No. 2,253 :—

SIR,

1. With reference to the Proceedings of Madras Government, dated 11th instant, No. 86, I have the honor to submit the original Memorandum from the Superintending Engineer, 5th Division, dated the 21st December 1863, and my reply thereto of the 23rd idem, from which it will be seen that Lieutenant-Colonel Hitchins wanted this Office to pass contingent Bills *for his Office*, out of the total allowances given to the Executive Engineers and other Range Officers *of the Division*, which is opposed to the principle on which a certain given sum is allotted for each separate Office.

1 Letter from the Superintending Engineer, 5th Division, dated 21st Dec. 1863, No. 1,625.
1 Do. to do. dated 23rd Dec. 1863, No. 2,147.

2. The Order of Government No. 1,916, dated 16th July 1863, clearly limits the extent to which *travelling batta* can be passed, and this would appear to be equally applicable to *contingent charges*, but it is not clear whether the G. O. under acknowledgement cancels the above, and I beg that explicit orders on the subject may be passed.

3. I would observe, in conclusion, that Office furniture made up anew, cannot be included in the Bills for ordinary contingent charges, and will not be passed by this Office without special sanction.

Vide Chapter V, paragraph 14 of the Civil Auditor's Manual.

No. 450. ORDER THEREON, 21st January 1864, No. 222.

The Orders marginally noted were not intended to supersede any previous instructions, but to authorize the Controller to pass the contingent and travelling batta bills submitted by the Superintending Engineers when the aggregate amount provided for each Officer in Part III of the Budget under those heads was not exceeded.

No. 86, 11th January 1864.

2. The Superintending Engineer, 5th Division, will be requested to submit a statement of the furniture required for his Office.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 451. Read the following Proceedings of the Madras Government in the Military Department :—

Communicating to the Judicial Department letter, from the Quarter Master General, stating that there is no objection to the execution of the additions, &c., proposed by the Inspector General Madras Police to the Military Hospital at Rajahmundry, Vizagapatam District, that it will be resumed if required for Military purposes at any future time. (Here enter 14th January 1864, No. 149.)

No. 452. ORDER THEREON, 21st January 1864, No. 223.

Communicated to the Superintending Engineer, 1st Division.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 453. Read the following Proceedings of the Madras Government in the Judicial Department :—

Communicating letter from the Inspector General of Jails enclosing copy of his notes relative to the state of progress on the Coimbatore Jail works, and stating that Lieutenant Trail cannot be invested with powers of punishment over prisoners confined in the Zillah Jail under charge of the Session Judge. (Here enter 11th January 1864, No. 38.)

No. 454. ORDER THEREON, 21st January 1864, No. 224.

Communicated to the Superintending Engineer, 7th Division, with reference to paragraph 1 of G. O. No. 3,509, dated 30th November 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 455. Read the following Proceedings of the Madras Government in the Revenue Department:—

Communicating Proceedings of the Board of Revenue stating that the verandah along the west front of their present Office, Chepauk, is absolutely necessary. (Here enter 11th January 1864, No. 56.)

No. 456. ORDER THEREON, 21st January 1864, No. 225.

Communicated to the Superintending Engineer, 4th Division, with reference to G. O. No. 137, dated 15th January 1864.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 457. Read the following letter from Lieutenant-Colonel E. HEMERY, R. E., Superintending Engineer, 3rd Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Cuddapah, 9th January 1864, No. 253:—

SIR,

1 Original letter No. 66.

With reference to Order of Government No. 3,621, dated 8th December 1863, I have the honor herewith to submit for the consideration of Government, a letter from Captain Fischer on the subject of the project now under investigation by Mr. Porter for the irrigation of part of the Adoni Táluq of Bellary and portions of the Kurnool District, lying between the Hindri and Toomboodra.

No. 458. ORDER THEREON, 21st January 1864, No. 226.

1. In Proceedings of Government No. 3,240 of the 7th November 1863, it was stated that sufficient information had been collected to show that from two points only could channels be taken from the Toomboodra for the irrigation of the plains lying, respectively, between the Toomboodra and the Pedda Huggry on the one hand, and between the Toomboodra and the Hindri on the other. In paragraph 4 of the same Order Mr. Porter was directed to carry a contour line of levels from Serrigoopah, or from any point suited for the erection of an Anicut above that place, across the Pedda Huggry and through the Adoni Táluq towards Kurnool. It is clear, therefore, that the supply of water to Bellary or to the neighbourhood of that place was not contemplated, but that the investigation of the practicability of irrigating the plain lying between the Toomboodra and the Hindri from the former river by an Anicut at, or near to Seerigoopah, was the duty to which Mr. Porter was required to turn his attention, and the Government cannot understand how an Officer, so well acquainted with that part of the country as Captain Fischer is, could have so misapprehended plain instructions as to have tendered the very erroneous advice which he reports having given to Mr. Porter.

2. It is observed that in paragraph 2 of Proceedings of Government No. 3,621 of the 8th December 1863, Mr. Porter's instructions are very explicitly defined.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 459. Read the following Proceedings of the Madras Government in the Military Department:—

Approving of the Estimates amounting to Rupees 6,540, for a new Privy for the Battery of Artillery at Trichinopoly, and for alterations to Artillery Barracks to form a sleeping room. (Here enter 15th January 1864, No. 165.)

No. 460. ORDER THEREON, 21st January 1864, No. 227.

Communicated to the Superintending Engineer, 6th Division, for information and guidance

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 461. Read the following letter from Lieutenant-Colonel O. W. S. CHAMBERS, R. E., Superintending Engineer, 1st Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Waltair, 8th January 1864, No. 2,053:—

SIR,

1 Plan.
1 Estimate.
* No. 1,868 of 14th July 1863.

1. In continuation of my letter No. 921 of the 28th August and with regard to the Order* of Government thereon as per margin, I now beg to submit for sanction an Estimate amounting to 250 Rupees for the conversion of the late District Engineer's Office at Chetterpore into a public Bungalow, a proposition made by the Collector of the Ganjam District whose letter is annexed.

2. I purpose with the sanction of Government meeting the cost of the alteration by taking the 250 Rupees from the sum sanctioned for the Mojagudda and Sunkeracole road Rupees 16,900, the whole of which will not be expended this year.

No. 462. ORDER THEREON, 21st January 1864, No. 228.

The attention of the Superintending Engineer, 1st Division, will be requested to the Proceedings of Government No. 2,626, dated 12th September 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 463. Read the following Endorsement of the Under Secretary to the Government of India, dated Fort William, Public Works Department, 31st December 1863, No. 5,431:—

Read the following letter from A. M. MONTEATH, Esq., in charge of the Office of Director General of the Post Office of India, to E. C. BAYLEY, Esq., Secretary to the Government of India, Home Department, dated Calcutta, 18th November 1863, No. 1,947.

SIR,

1. I have the honor to solicit the sanction of Government to the transfer of Rupees 3,054, being the amount required for the erection of a Post Office at Beypore, from the sum of Rupees 10,000 shown under the head of "Construction" against the Madras Division in the consolidated Budget Estimate for 1863-64, to the Budget of the Department Public Works for that year, in view to the work being executed by its Officers. I understand from the Post Master General of Madras that there are no available funds in the Department of Public Works to meet this charge.

2. The Plan and Estimate of the proposed building were approved by Dr. Paton.

No. 7,377.

Forwarded to the Financial Department for consideration and orders, and its return requested.

By Order, &c.,
(Signed) J. W. S. WYLLIE,
Under Secretary to the Government of India.

FORT WILLIAM,
Home Department,
The 28th November 1863.

No. 6,112.

Fort William, Financial Department, the 9th December 1863.

1. The Governor General in Council is pleased to sanction the transfer solicited.

2. Copy to the Home Department and to the Auditor General of India and copy to the Public Works Department.

By Order, &c.,
(Signed) E. H. LUSHINGTON,
Secretary to the Government of India.

Copy forwarded to the Government of Madras in the Public Works Department for information.

(Signed) E. C. S. WILLIAMS, Captain, R. E.,
Under Secretary to the Government of India.

No. 464. ORDER THEREON, 21st January 1864, No. 229.

1. Communicated to the Superintending Engineer, 7th Division, for information and guidance.

2. The Accountant General will be requested to place the sum of Rupees 3,054 to the credit of the Superintending Engineer, 7th Division.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 465. Read the following letter from Lieutenant-Colonel J. P. BEADLE, R. E, Officiating Secretary to the Government of India, Public Works Department, to the Secretary to the Government of Madras, Public Works Department, dated Fort William, 14th December 1863, Circular No. 66:—

SIR,

1. With reference to Public Works Department, Circular No 59, dated the 26th November 1863, on the subject of the financial treatment and control of the charges for Staging Bungalows, I am directed to intimate that, as under the orders therein conveyed, no Receipts or Expenditure under this head will, from the 1st May 1864, appear in the Imperial Public Works Accounts, due provision for the requisite funds should be made from local income.

2. It is requested that a copy of this Circular may be communicated to the Controllers of Public Works Accounts.

No. 466. ORDER THEREON, 21st January 1864, No. 230.

Recorded, with reference to G. O. No. 179, dated 18th January 1864.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 467. Read the following letter from Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Colonel C. A. ORR, R. E, Secretary to Government, Public Works Department, dated Meylore, 18th December 1863, No. 1,542:—

SIR,

1. In reply to No. 3,651, 10th instant, I have the honor to report that conceiving I was obliged to adjust the expenditure in excess of allotment on the works marginally noted, I struck out the amount from those that in my opinion could best afford it.

Road between Cariaputty and Arcopoocotta.
Madura and Paraputty.

2. Trunk Road No. 4, and that from Madura to Ammianaickenoor are otherwise provided for, and instead of working on two roads I thought it better to keep to one, viz., those on the hills, from which however I was still obliged to reduce Rupees 601.

3. The road between Buttalagoonta and Pullaputty is in very bad order, but we have allotted a portion of the Ferry Funds to it, and at the Collector's request I have now applied to you for permission to transfer 1,000 Rupees more from another part of the same road to it. There is besides a maintenance allowance, much of which will be laid out this year in making this portion,

4. As the Collector may, however, prefer to modify my proposal so far as to lay out the balance Rupees 267 on this road, I forward this letter through him; unless the Government have further funds available this must, I presume, be deducted from the amount remaining to credit of roads on the Pulny Hills, in which case the appropriation will stand as follows:—

	RS.
Madura water project	3,740
Road from Buttalagoonta to Pullaputty	267
Roads on the Pulny Hills	1,875
	5,882

The road between Pullaputty and Buttalagoonta is an important District road, and is part of the direct road from Madura to the Pulny Hills, it is in a terribly bad state. I think the 267 Rupees should be laid out on it as well as the 1,875 Rupees for roads on the Pulny Hills. I do not approve of any money being allotted for the hill roads at present, for the reason that no examination has yet been made of the hills to determine what should be the proper direction of the different hill roads to be made; there is no good superintendence available to expend the 1,875 Rupees, and if its expenditure is to be left to a Native Subordinate on the hills it will be lost, besides such a small sum is a mere drop in what is wanted on the hills.

Kody Kanel, Pulny Hills,
December 26th 1863.

(Signed) V. H. LEVINGE, *Collector.*

No. 468. ORDER THEREON, 21st January 1864, No. 231.

1. In supersession of the Orders marginally noted, the Governor in Council grants authority for the expenditure on the undermentioned works of the sum of Rupees 5,582, reported to be available from the Income Tax allotments for the Madura District for the years 1860-61 and 1861-62:—

No. 3,651, dated 10th December 1863.

	RS.
Madura water project	3,740
Road from Buttalagoonta to Pullaputty	2,142

2. The Estimate originally sanctioned* for the second of these works amounts to Rupees 7,884, of which only Rupees 267 appear to remain unexpended. The grant of Rupees 2,142 now sanctioned is therefore Rupees 1,875 in excess of the unexpended balance. Captain Moberly will accordingly be requested to submit a supplemental Estimate for the sanction of Government with as little delay as practicable.

* 5th July 1855.

3. In separate† Proceedings the Governor in Council has sanctioned the expenditure from Ferry Funds of a sum of Rupees 2,000 on the road from Pullaputty to Pareacolum.

† No. 146, 15th January 1864.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 469. Read the following letter from Lieutenant-Colonel E. HEMERY, R. E., Superintending Engineer, 3rd Division, to Colonel C. A. ORR, R. E., Secretary to Government Public Works Department, dated Cuddapah, 13th January 1864, No. 262:—

SIR,

1. In paragraph 2, Order of Government No. 2,024, dated 25th August 1862, the following suggestion by the late Chief Engineer was approved of:—

"All re-arrangements of allotments for repairs only, when not exceeding the total limit for the same may be left for the approval of Deputy Chief Engineers, instead of being submitted for the sanction of Government."

2. Under the impression that Superintending Engineers had the same powers of sanctioning and re-arranging expenditure as were conferred on the late Deputy Chief Engineers, I have allowed some of the sub-divisional allotments for repairs to be exceeded in this Division, taking care however that the total amount sanctioned for repairs in each District is not exceeded, but the Controller and Auditor Public Works Accounts informs me that the authority of Government must be obtained for each transfer of funds from one sub-divisional head of repairs to another, thereby ignoring the order of Government above quoted.

3. If the Controller's view of the case be correct, and if sanction must be obtained for the transfer of funds from one sub-divisional head of repair to another, the references to Government will be endless, and the hands of Superintending Engineers will be so tied that the greatest inconvenience will ensue; I therefore trust Government will be pleased to confer on Superintending Engineers the same powers of re-arranging repair allotments as were formerly held by Deputy Chief Engineers.

No. 470. ORDER THEREON, 21st January 1864, No. 232.

No. 1,748, dated 13th July 1863.

1. The attention of the Superintending Engineer, 3rd Division, will be requested to the Orders marginally noted, which distinctly provide for all proposals for the re-arrangement of allotments whether for new works or repairs, being submitted for the orders of Government.

* Recorded in G. O. No. 1,748.

2. The cancelment of the previous orders referred to by Lieutenant-Colonel Hemery was rendered necessary in consequence of the receipt of the Circular from the Government of India No. 10* of 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 471. Read the following Proceedings of the Madras Government in the Revenue Department, dated 16th January 1864, No. 103:—

Read the following letter from the Consulting Engineer for Irrigation and Canal Company.

Forwarding with his remarks the Chief Engineer's letter No. 772 of the 26th October 1863, together with copies of correspondence regarding the mode of collecting water rate and distributing Channels. (Here enter 19th November 1863, No. 103.)

1. With regard to the distribution of water the Government observe that the Ryot in return for his payment of water-cess is entitled to have the water delivered on his land free of further charge. The Government again receive only the assessment payable on the land without reference to irrigation, and cannot consequently be charged with any expense connected with the distribution of the water.

2. Under these circumstances it is clear that all extra expense incurred in distributing water must be debited to the Company's account which, per contra, will be credited with the water-cess levied.

3. It may perhaps be the most convenient arrangement for the Company to deliver the water at the village boundary, and for Government to undertake the duty of distributing it, but in such case the Company must of course reimburse Government for all expenses incurred.

4. With these remarks the Government resolve to refer the papers to the Board, with a request that they will confer on the subjects therein discussed with Colonel Ludlow and the Collector of Kurnool (who is now at Madras), and submit a draft of forms of account and regulations for the consideration of Government.

(True Extract.)

(Signed) J. D. SIM,
Secretary to Government.

No. 472. ORDER THEREON, 21st January 1864, No. 233.

Communicated to the Consulting Engineer, Irrigation and Canal Company.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 473. Read the following letter from Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Coonoor, 15th January 1864, No. 301:—

SIR,

1. I have the honor to forward in original, Captain Hankin's and Major Farewell's reports of a fatal accident which befell one of the Convicts lately sent up for work at the new Lawrence Asylums, accompanied by translation of the verdict of the Coroner's Inquest; delay in furnishing which latter paper, has caused the transmission of all three to be deferred till now.

2. I visited the spot myself on the 28th December, and I have no hesitation in saying that the Warder in charge of the gang was to blame for the accident. The whole of the work is in one straight line, and under easy command of view; and large falls of earth are not got in the few minutes that the Warder's eyes may have been off one particular spot. I trust that Government will order the dismissal of whoever was in charge of the Convicts at the time, if no severer punishment can be inflicted on him. The other persons injured have recovered.

No. 474. ORDER THEREON, 21st January 1864, No. 234.

Communicated to the Judicial Department.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 475. Read the following letter from Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Conoor, 15th January 1864, No. 299:—

SIR,

1. I have the honor to report that the discrepancy alluded to in paragraph 2 of the Controller's letter, printed with Government Order No. 88 of 11th January, is caused by my assumption that the actual collections from tolls on the Coonoor Ghâut and Road and on the Seegoor Ghâut may exceed the estimated sum sufficiently to cover the amount.

2. I have no grounds for that assumption, but I know that the work has to be done and the full amount of the sanctioned Estimate spent this year, and that the deficit will be made good from some source or other, which it would be premature at this date to attempt to define.

No. 476. ORDER THEREON, 21st January 1864, No. 235.

Communicated to the Controller and Auditor of Public Works Accounts.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 477. Read the following papers:—

Proceedings of the Madras Government in the Judicial Department.

Communicating letter from the Agent to the Governor in Ganjam and requesting that orders may be issued for the immediate construction of the proposed line of road from Aska viâ Soorada to Darangapadi. } (Here enter 7th January 1864, No. 22.)

No. 478. Proceedings of the Madras Government in the Judicial Department.

Stating that the projected road between Aska and Soorada should be speedily constructed, and referring for consideration the suggestion of the Agent to the Governor at Ganjam, that the erection of a Cutcherry and Police Station at Darangapadi, &c., should be entrusted to a Subordinate in the Department Public Works specially appointed for that purpose. } (Here enter 7th January 1864, No. 24.)

No. 479. ORDER THEREON, 21st January 1864, No. 236.

1. Communicated to the Superintending Engineer, 1st Division, with the request that he will, in concert with the Agent to the Governor in Ganjam, proceed at once with the construction of the Cutcherry and Police Station at Darangapadi and the proposed line of road from Aska

and Russelconda viâ Soorada to Darangapadi, reporting, for the information of Government, the name of the Subordinate he may appoint to the works in question and the source from which funds are to be obtained in the current year:—

2. Plans and Estimates should be submitted to Government as early as practicable.

3. Ordered that the following Telegram be despatched:—

"*To the Superintending Engineer, 1st Division.*

"Government has sanctioned the immediate construction of a Cutcherry and Police Station at Darangapadi and a line of road to that place from Aska and Russelconda viâ Soorada. Mr. Forbes will explain details to you. Appoint a Subordinate specially to the works and push them on as expeditiously as possible."

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Read the following papers:—

No. 480. From Captain H. TULLOCH, R. E., Executive Engineer on Special duty, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Madras, 21st December 1863, No. 26:—

SIR,

1. I have the honor to request that you will favorably represent for the sanction of Government, this application for a small extension to my present Office Establishment.

The permanent hands employed under me consist of—

	RS.
1 Draughtsman on	40
1 Writer	35
4 Lascars	28
Total...	103
1 Supervisor	200
1 Writer	15
2 Lascars	12
Total...	227
Grand Total...	330

The temporary Establishment granted me for the period of four months consists of—

	RS.
1 Draughtsman on...	20
1 Estimate-maker...	60
2 Surveyors, each 150	300
8 Lascars for Surveyors	50
2 Do. extra, allowed to me	9
2 Do. do. do. to the Supervisor	13
Total...	452

2. By the end of next month I shall have no temporary hands employed under me.

3. The extra Lascars allowed to myself and the Supervisor were dismissed a few days ago, as the four months for their employment had expired; I beg that these may be continued to us *permanently*. Four Lascars for myself are not sufficient. Two of them are required as guards night and day over my Office, which contains a very large assortment of valuable instruments.

With the other two by themselves, I am not able either to level or to survey. The only way in which I can manage now is to lend Mr. Martin two men and to retain the others in my Office, one to send on messages, the other to attend to the wants of the Clerks. It is not possible for me to go out in the field at present, as if I did I should have to make use of the Supervisor's Lascars, and should thus put an effectual stop to his own out-door work. The cost of the four Lascars would be only 24 Rupees a month.

4. With the experience that I have now gained, I am certain it will be better to employ one Surveyor permanently than two temporarily. I would not, however, recommend nearly so high a salary for him as Government have sanctioned for the temporary Surveyors now working under me. Each draws 150 Rupees monthly, besides a travelling allowance of 40 Rupees. I think 100 Rupees a month with a travelling allowance of 30 Rupees ample for the class of men at present procurable. In a year this would amount to no more than 1,560 Rupees, whereas the two temporary Surveyors for only four months will have cost Government 380×4=1,520. I will answer for it that one man after he has been with me six months will do more than two temporary Surveyors procured at the moment they may be required. It has been the only disheartening part of my duties to undo work which has taken my Surveyors many days to do. I have now checked several miles of survey only to reject the entire work. Indeed I feel certain that there is but one way to secure good Surveyors, *i. e.*, to employ them permanently. I believe Mr. Fraser's experience leads him to the same conclusion.

5. I am quite prepared now to be obliged to reject the first month's work of any Surveyor employed for the first time on a project similar in its nature to the one I am at present investigating. Just by the time each man becomes useful it is necessary to dismiss him. The experience he may have gained cannot therefore be turned to further account for Government.

6. I also respectfully submit the necessity for two more permanent Draughtsmen in my Office. Their combined pay need not be more than 80 Rupees, one on 50 Rupees and one on 30 Rupees, I would myself teach both (and indeed every man in my Office) to level and survey so as to make them useful to the utmost extent possible. In time these men would receive a special training for work in connection with the investigation of projects, and Government would then have a class of servants on whom they could depend and who would do a far greater amount of work than double their number of temporary hands.

The total extra charge to Government would be—

	RS.
4 Extra Lascars	24
1 Surveyor (with travelling allowance)	130
2 Draughtsmen	80
Total...	234

7. It is for the sake of economy that I ask for the sanction of this extra permanent Establishment, inasmuch as if it is not granted temporary hands must ultimately be employed at a cost far exceeding in the end this regular charge. The longer a project takes to complete the greater the expense becomes to Government, and for this reason an inefficient Establishment is unadvisable.

MEMORANDUM.

Mr. W. Fraser, Special Executive Engineer, is requested to state what Establishment he considers should be attached to him after the services of the temporary Establishment now employed have been dispensed with.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government, P. W. D.

Chepauk,
22nd December 1863.

No. 481. From W. FRASER, Esq., C. E., Special Executive Engineer, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Red Hills, 28th December 1863, No. 75.

SIR,

1. In accordance with your Memorandum, dated the 22nd instant, I have the honor to return Captain Tulloch's letter No. 26, with the following remarks :—

My present permanent Establishment is—

		RS.
1 Draughtsman		40
1 Writer		35
4 Lascars		28
Total...		103
1 Assistant Supervisor	150	
1 Writer for do.	15	
2 Lascars for do.	12	
		177
Total per month ...		280

The temporary Establishment allowed to me for four months is the same as that noted by Captain Tulloch, but I have now only one temporary Surveyor, as Mr. Stephenson, one of the two employed, accepted, in the early part of this month, an appointment under the Madras Irrigation Company.

It is not my wish to replace him by another with the sum now remaining at my disposal, because, as Captain Tulloch remarks : " By the time each man becomes useful it is necessary to dismiss him."

2. I agree with what Captain Tulloch has written regarding the uselessness for a month or two of the majority of Surveyors to be had about Madras.

They are slow and inaccurate ; they have no idea of what should be represented, and what might be neglected in making a survey ; and they are totally ignorant of the numerous short practical methods of overcoming little difficulties as they arise. They are paid quite as much as English Surveyors, and they get through, in an unsatisfactory way, about one-third of the work.

I have found it necessary, as Captain Tulloch has, to reject a large proportion of the work first done.

Future permanent Establishment.

3. This is a subject about which I have been anxious for some time past, as the present arrangement is expensive both in time and money. My opinions were fully explained when I proposed the appointment of Special Engineers. I particularly urged the importance of having the Establishment of Surveyors, &c., sufficient to keep us busy " *as Engineers*," and that anything less than this would involve a waste of time and money.

My present circumstances will illustrate what I mean.

With regard to the Red Hill part of the Madras water scheme I have done all that I have to do for the present *as an Engineer*.

With the aid of general levels and surveys I have settled—

I. The point on the Cortelliar where the supply channel should be taken off.

II. The line of the supply channel from the Cortelliar to Solavaram lake.

III. The extent to which this lake may be enlarged.

IV. The line by which it can be connected with the Red Hill lake.

V. The works connected with the enlargement of the latter.

VI. The general line for the channel to Madras, and

VII. The site for the proposed basin in Madras.

Mr. Ottman, the Principal Assistant, has been over the ground with me several times, he is in full possession of, and thoroughly understands, what is proposed to be done, and the detailed surveys, now in progress, can be completed by him.

As these surveys are finished, I shall have to mark upon them the details of the several designs, but in the meantime I am not wanted here.

I should now be in a position to go to the Adyar valley, where I have the Pommal and Mount tank and other questions to examine in connection with the Madras water supply, or to the investigation of the works in connection with the Cortelliar and Cooum, alluded to in the Government Minute No. 1,741.

4. There is, however, no use in my going on any of these duties unless I can bring an intelligent Surveyor with me, and this, under present circumstances, I cannot do, unless I stop the surveying here. The result is that I am now engaged in surveying, which could be just as well done by an Assistant on one-fifth of my pay. This leads us back to the former statement that true economy consists in keeping us busy *as Engineers.*

5. The strength of the Establishment of Surveyors, &c., allowed to me, will depend on the view you take of this question. If I am to have the necessary detailed surveys prepared for me, I can now employ at least six Surveyors; but if I am to survey ordinarily myself, then my present Establishment or even a smaller one will suffice. With regard to the latter supposition I would quote Captain Tulloch's last paragraph: "The longer a project takes to complete the greater the expense becomes to Government, and for this reason an insufficient Establishment is unadvisable."

6. The Surveyors I should like to have now are two good Assistants; that is, one other in addition to Mr. Ottman and four Subordinate Surveyors.

The two Principal Assistants should be of Mr. Ottman's class. They should be good Surveyors and levellers, and possessed of some departmental experience.

The four Subordinates should be good Surveyors and levellers, and able to plot their own work; but as they would be under the immediate orders of the two superiors nothing more would be required of them.

7. If I had such a staff now, I would leave Mr. Ottman here with two Surveyors to complete these plans and bring the other set with me to the Adyar or wherever they were most wanted; visiting the former occasionally to keep things straight.

8. I have thought earnestly over the best means of obtaining these Surveyors, and I would recommend that the following plan be tried. My object is to get a sufficiently trained staff at the smallest expense.

I do not think with Captain Tulloch that if we go into the ordinary Survey market of Madras, we shall get efficient men for 100 Rupees a month. The wants of the Irrigation, the Railway, and Tramway Companies have caused an increased demand for Surveyors and Draughtsmen, so that efficient hands are now difficult to be got.

Mr. Stephenson, who was getting 190 Rupees on this Survey, has just gone to join the Irrigation Company on 260 Rupees a month.

A Native Surveyor, whom, after a long trial, I did not consider worth 60 Rupees a month, is now receiving 150 Rupees a month on the Neilgherries. We must have good Surveyors, and if we go into the ordinary market for them we must compete with other employers.

9. When the Special Engineers were appointed, I suggested (to Colonel Birdwood) that we might be supplied with ordinary Surveyors from the Engineering College, on the payment of liberal travelling allowances.

I do not know what the difficulty was which prevented this idea being carried out, but supposing that the difficulty still exists, I would suggest the following modification of my first proposition.

I take it for granted that the College could supply us with a sufficient number of men so far trained that a few weeks, practical teaching would make them tolerable Surveyors. From the list of such men (supplied by the Principal) let us select the number we want, and take them on trial as probationers; under such rules regarding pay, promotion, and allowances, as you may deem right.

If these men were admitted to the Department they would receive (if I am rightly informed) 60 Rupees a month as pay, and 20 Rupees for travelling allowances, in all 80 Rupees a month.

With us their expenses would be rather more than if they were settled in Táluqs; but let us, for the present, adopt this scale of pay; the staff I ask for would then amount to:—

	RS.
2 Department Assistants of the rank of Supervisor at 150 Rupees each and 40 Rupees travelling allowance = Rupees 190 × 2	380
4 Probationers at 80 Rupees each	320
	700
6 Sets of Lascars for the above consisting of 5 each, one at 7 Rupees and 4 at 6 Rupees a month = Rupees 31 × 6	186
Total ...	886

10. I now come to the Office Establishment. I quite agree with Captain Tulloch regarding the inefficiency of the present Office Establishment, but we do not quite agree as to the best means of rendering it efficient. We may, however, be both right according to the different circumstances under which we are placed. You will perhaps be surprised to hear that at the Red Hills food, &c., are 30 to 50 per cent. dearer than they are in Madras. A very good Draughtsman or Estimate-maker can be had at Madras for 60 Rupees a month, or less, I cannot get one to come here for 80 Rupees a month, unless he is to be permanently employed. In order to keep proper Lascars with me I am obliged to pay some of them a Rupee each extra from my own private purse, and for all as well as for my own servants I find it necessary to keep up a supply of rice, &c., at wholesale prices.

The Office Establishment I would ask for is —

		RS.
I.	Head Draughtsman and Estimate-maker	80
II.	Assistant do.	40
III.	Do. do., and Writer and Accountant	35
IV.	Moochi	10
V.	6 Lascars at 7 Rupees	42
	Total...	207
	Deduct present Establishment...	103
	Extra amount applied for...	104

This is 12 Rupees a month more than Captain Tulloch asks for.

The difference arises in items IV and V as he gets his Moochie's work done at the Lithographic Department (I cannot), and he asks but 6 Rupees each for two of his Lascars.

The whole amount I ask for is *just equal* to that allowed for the Executive Officer at the Presidency, and 31 Rupees less than that allowed for the Neilgherries.

I would refer to paragraph 9 of the Re-organization Committee's Report to show that in their opinion we should have a larger Establishment than that allowed to ordinary Executive Officers.

11. The sum total I ask for is—

			RS.
1. Six Surveyors as explained in paragraph 9 ...			700
2. Lascars for do. ...			186
3. Office Establishment and Lascars, paragraph 9			207
Total per month...			1,093
Deduct permanent Establishment at present sanctioned.			
My own Office Establishment	103		
1 Assistant Surveyor	190		
1 Writer for do.	15		
2 Lascars do.	12		
			320
Balance...			773
Deduct temporary Establishment now sanctioned.			
2 Surveyors at 190 Rupees	380		
12 Lascars	71		
Draughtsman	20		
Estimate-maker	60		
			531
Total extra amount now asked for...			242

12. If this Establishment is sanctioned it will enable me to get through a good deal of work satisfactorily, and at a very small cost to Government.

I would propose to supply the men selected from the College with tents, and to give to each an office table and chair.

If you approve of the idea of our getting College men, Captain Tulloch and I could probably arrange about the selection, &c., with the Principal.

I think the plan proposed ought to work well, and lead to the formation of a body of well trained Surveyors, whose services would be found most useful wherever they might be subsequently posted.

If you approve of the suggestion, I should be glad to receive early sanction.

No. 482. ORDER THEREON, 21st January 1864, No. 237.

1. In the letters above recorded, Captain Tulloch and Mr. Fraser, Special Executive Engineers, apply for increased Office and Executive Establishments.

2. The Establishments at present attached to these Officers are as follow :—

CAPTAIN TULLOCH.

Permanent Office Establishment.

	RS.	
1 Draughtsman	40	
1 Writer	35	
4 Lascars	28	
		103
Permanent Extra Establishment.		
1 Supervisor	200	
1 Writer	15	
2 Lascars	12	
		227
Temporary additional Extra Establishment for the Madras drainage Project.		
1 Draughtsman	20	
1 Estimate-maker	60	
2 Surveyors at Rupees 150	*300	
12 Lascars	72	
		452
Grand Total...		782

* Or with Travelling Allowance at Rs. 40 each Rs. 380.

MR. FRASER.

Permanent Office Establishment.

The same as Captain Tulloch...		103

Permanent Extra Establishment.

1 Assistant Supervisor	†150	
1 Writer	15	
2 Lascars	12	
		177

† Or with Travelling Allowance Rs. 190

Temporary additional Extra Establishment for the Madras water supply Project.

The same as that allowed to Captain Tulloch for the drainage project		452
Grand Total...		732

3. The period, four months, for which the temporary Establishments were sanctioned being about to expire, it is proposed by both Officers to substitute permanent Establishments for them.

Captain Tulloch asks for—

	RS.
1 Surveyor	100
4 Extra Lascars for himself	24
2 Draughtsmen at Rs. 50 and 30	80
Total...	204

and would give the Surveyor a travelling allowance of Rupees 30 instead of Rupees 40 per mensem. To his Estimate however must be added four Lascars for the proposed extra Surveyor, which at Rupees 6 each, would raise the cost to Rupees 228 a month, or Rupees 224 below the present salary charges.

4 Mr. Fraser's requisition considerably exceeds the cost of his present temporary Establishment, it being as follows :—

	RS.
1 Assistant Supervisor	150
4 Probationers at 60 Rs.	240
1 Draughtsman	80
1 Moochee	10
30 Lascars at various rates...	188
Total...	668

		RS
Proposed additional permanent Establishment		668
Additional travelling charges		120
		788
Present temporary Establishment ...	452	
Travelling charges	80	
		532
		256
1 Writer to be discontinued		15
Net increase...		241

with travelling allowances to the Assistant Supervisors and Probationers, which are given at Rupees 40 each for the former and Rupees 20 each for the latter (less the pay of the present Assistant Supervisor's Writer (Rupees 15) whose services Mr. Fraser apparently proposes to dispense with) the net increase charge would be Rupees 241 per mensem.

5. The Government is not prepared to accede to either application. The Establishments to be attached to Special Executive Engineers must depend on the nature and extent of the work on which such Officers may from time to time be employed, and as these will continually vary it would be neither economical nor advisable to maintain under such circumstances large and expensive permanent Establishments.

6. Provision will be made in the Budget of 1864-65 for sufficient subordinate agency for the vigorous prosecution of the important projects on which Captain Tulloch and Mr. Fraser are now employed; but meanwhile all temporary Establishments must be discontinued from the date on which the present sanction shall expire.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 483. Read the following letter from Lieutenant-Colonel O. W. S. CHAMBERS, R. E., Superintending Engineer, 1st Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Waltair, 8th January 1864, No. 2,052 :—

SIR,

1. Immediately on the receipt of the Order* of Government as per margin, I sent a Memorandum, dated the 15th ultimo, to Mr. Boiler-maker Nowland, desiring him to proceed to Madras by the Steamer then daily expected at Cocanada, at the same time I requested the Master Attendant at that port to procure Mr. Nowland a second class passage.

* No. 3,586 of 5th December 1863.

2. On the 21st the Master Attendant telegraphed to me that the passage was taken, but that Mr. Nowland had not arrived when the vessel left.

3. Enclosed is an explanation from Mr. Nowland of the reason why he has not left Dowlaishweram, which I do not consider satisfactory, and at the same time a proposition to receive from Government after the 24th of January, on which date his Agreement expires, 600 Rupees and two months' pay in full of all claims : this proposition I recommend may be accepted.

4. The Medical Officer in charge of the Sappers sent me a certificate stating that the state of Mr. Nowland's health required that he should have more leave granted him ; but, as the Mechanical Engineer's service is up on the 24th instant, that leave is of course unnecessary : no certificate has been sent me of Mr. Nowland's inability of being moved, and as the journey to Cocanada is one by water, taking from 8 to 10 hours, as before said, I consider his excuse or reason for not moving on receipt of my order unsatisfactory.

5. I have further the honor of submitting for the disposal of Government Mr. Nowland's claim to Rupees 74 for medical attendance and the cost of medicine during the month of November.

6. Mr. Nowland, by the terms of his contract, has an undoubted claim to attendance and medicine, and as the Dowlaishweram Hospital is closed, has to seek medicine and attendance where he can best find them : the charge for medicine is however exorbitant, and the bill accompanying the claim as a voucher has a suspicious appearance.

7. A bill for December will doubtless be sent in by Mr. Nowland, which will also be forwarded by me to Government for disposal.

No. 484. ORDER THEREON, 21st January 1864, No. 238.

To enable the Government to dispose of the question of allowing Mr. Nowland a certain sum in full of all demands against it, the Superintending Engineer, 1st Division, will be requested to furnish copy of the Covenant which was returned to him with Proceedings dated 22nd October 1863, No. 3,058. Colonel Chambers will at the same time report with reference to the claim for Medical attendance and the cost of medicines, urged by Mr. Nowland, whether such medical aid could not conveniently have been obtained at the Sapper Hospital at Dowlaishweram, as contemplated by Government in its Proceedings of 5th December 1863, No. 3,591. Colonel Chambers will further be good enough to obtain Dr. Lowe's opinion on the reasonableness or otherwise of the quantities and cost of the medicines charged for in the bill submitted, and whether, within his knowledge, the medicines in question were rendered necessary by disease incurred by exposure on duty, or in consequence of imprudence.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 485. Read the following letter from Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Nuttum, 7th January 1864, No. 1,636:—

SIR,

1. I have the honor to request that Government will be pleased to place at the disposal of the local Officers in Tinnevelly, if possible, from the Reserve Fund the sum of Rupees 2,606 under the following heads:—

	RS.
Land and Miscellaneous	951
Jails	525
Court Houses	130
Rivers...	1,000

2. Damage has been done to the buildings in Palamcottah and the Tambrapoorney beyond the usual average by the rains of the two last monsoons.

3. As reported in my No. 663 of 17th September 1863, the late Acting District Engineer had exceeded the allotment on the first two heads by Rupees 526,* this amount I have added to the sum now required in excess of the Budget allotment.

* After deducting Rupees 1,497 for Subsidiary Jails, which have been since provided for from Police Funds.

4. Captain Paxton reports also that the road to Trichendoor running along the bank of the Tambrapoorney, has been heavily damaged by the flood from that river, and believes that Rupees 5,000 beside the maintenance allowance will be necessary to restore it; if there is any prospect of this sum being available a detailed Estimate shall be prepared.

No. 486. ORDER THEREON, 21st January 1864, No. 239.

The Superintending Engineer, 8th Division, will be requested with reference to this letter to provide for the additional funds now applied for in the Statements which he is required to submit by the 15th instant, under the orders of Government dated 14th December 1863, No. 3,681. Captain Moberly should be aware that the Local Government has no authority to transfer any sum from the head of " Reserve" to that of " Repairs." On receipt of the Statements called for in the orders just quoted, the Government will be in a position to see how far it will be practicable to comply with the applications of Officers for increased grants under specific heads.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 487. Read the following Proceedings of the Madras Government in the Military Department:—

Approving of the Estimate of Rupees 21,500 for renewing the roof of the European Infantry Barracks at Bangalore. (Here enter 15th January 1864, No. 173.)

No. 488. ORDER THEREON, 22nd January 1864, No. 240.

1. Communicated to the Superintending Engineer, 5th Division.

2. In Proceedings No. 3,837, dated 24th December 1863, the full amount of the Estimate was placed at the Superintending Engineer's disposal from the current year's Reserve.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 489. Read the following letter from Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Coonoor, 15th January 1864, No. 303:—

SIR,

1. Under the Orders of Government No. 1,794 of 8th July 1863, the conversion of the Caroor Moonsiff's Court into a Chuttrum for travellers was undertaken at an outlay of Rupees 127, the Estimate for which met with the Collector's and my own approval.

2. That Estimate is now submitted for the sanction of Government at the suggestion of the Controller, who objects that our sanction is inadequate for an Estimate exceeding Rupees 100.

3. The outlay has been met from Rupees 1,900 allotted for accommodation for travellers, under which head Rupees 273 only were appropriated at the time (August) when the work was entered.

No. 490. ORDER THEREON, 22nd January 1864, No. 241.

1. The work referred to in this letter having been already executed, the sanction of Government to the Estimate is unnecessary.

2. The Bill for the outlay incurred should be submitted to Government, with reference to paragraph 20, Chapter V of the Public Works Code.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 491. Read the following letter from Lieutenant-Colonel J. P. BEADLE, R. E., Officiating Secretary to the Government of India, Public Works Department, to the Secretary to the Government of Fort Saint George in the Public Works Department, dated Fort William, 2nd January, 1864, No. 28 :—

SIR,

In reply to your letter No. 3,321, dated the 16th November 1863, I am instructed to state that *all savings* on Budget allotments should be credited to Reserve, and from that head re-appropriated to Original Works alone. In regard to the specific question relating to Repairs, I beg to refer you to an extract given on the margin, from Budget Rule 24, and to observe that in this case also the Reserve should first be credited.

" Any saving on Repairs will be at the disposal of the Local Government to devote to Original Works."

No. 492. ORDER THEREON, 22nd January 1864, No. 242.

Communicated to the Superintending Engineers and to the Controller and Auditor of Public Works Accounts.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 493. Read the following Proceedings of the Madras Government in the Revenue Department :—

Communicating Despatch from the Home Government together with that to which it is a reply, regarding the system to be adopted in assessing the lands irrigated in Kurnool by the Irrigation Company. (Here enter 16th January 1864, No. 99.)

No. 494. ORDER THEREON, 22nd January 1864, No. 243.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Ordered that the following letter be despatched.

No. 495. From Colonel C. A. ORR, R. E., Secretary to the Government of Fort Saint George, Public Works Department, to the Secretary to the Government of India, P. W. D., dated 22nd January 1864, No. 244.

SIR,

1. With reference to your letter No. 4,640, dated 29th October 1863, sanctioning a further grant of Rupees 3,00,000 for expenditure on certain Public Works in this Presidency, I am

directed by the Honorable the Governor in Council to request that, if it be found impracticable to expend the entire amount on those works within the current year, the Madras Government may be authorized to transfer to the Reserve such sums as the local Officers may report cannot be spent within that time, and to appropriate the amounts so transferred to the completion of other equally important and pressing works for which no funds are available, such as the Cuddapah and Madras Road, to finish which, Rupees 5,000 are immediately required.

2. I am also to request that the reply to this reference may be communicated by Telegram.

No. 496. Read the following Proceedings of the Madras Government in the Military Department:—

Communicating papers relative to the removal of the Hospital of Her Majesty's 69th Regiment to the upper story of the new wing of the General Hospital, Presidency District. } (Here enter 15th January 1864, No. 181.)

No. 497. ORDER THEREON, 22nd January 1864, No. 245.

Communicated to the Superintending Engineer, 4th Division.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 498. Read the following Proceedings of the Madras Government in the Revenue Department:—

Communicating Proceedings of the Board of Revenue forwarding letter from the Collector of Bellary reporting further on the prospects of the season in the District. } (Here enter 9th January 1864, No. 39.)

No. 499. ORDER THEREON, 22nd January 1864, No. 246.

Recorded, with reference to G. O. No. 184, dated 18th January 1864.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 500. Read the following Despatch from the Right Honorable Sir C. WOOD, Bart., Secretary of State for India (Public Works), to His Excellency the Honorable the Governor in Council, Fort Saint George, dated India Office, London, 16th December 1863, No. 20:—

SIR,

Subsequent to the date of my despatch (September 16th No. 14, 1863,) a copy of Mr. Dopping's Memorial was received in this Office. The copy forwarded in your letter, dated October 23rd (No. 65) 1863, is therefore, herewith returned for record in the Government Office at Madras.

No. 501. ORDER THEREON, 22nd January 1864, No. 247.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 502. Read the following Proceedings of the Madras Government in the Military Department:—

Approving of the Estimate of Rupees 620 for re-roofing the rear verandah of the new Family Quarters in Begum's Bungalow compound at the Mount, Madras District. } (Here enter 15th January 1864, No. 178.)

No. 503. ORDER THEREON, 22nd January 1864, No. 248.

Communicated to the Superintending Engineer, 4th Division, with a request that the repairs may be carried out without delay, and a report submitted of the source from which the cost is to be defrayed.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government,

No. 504. Read the following Proceedings of the Madras Government in the Military Department :—

Communicating to the Commander-in-Chief Proceedings Public Works Department stating the circumstances under which the usual course has not been followed when applying for the services of Lieutenants Morant, Pennefather, &c. } (Here enter 18th January 1864, No. 202.)

No. 505. ORDER THEREON, 22nd January 1864, No. 249.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 506. Read the following Proceedings of the Madras Government in the Revenue Department :—

Approving of the Estimate of Rupees 1,040 for making certain alterations to the building lately occupied by the Sub-Collector's Office at Chingleput, &c., Madras District, to provide accommodaton for the Tahsildar's Cutcherry. } (Here enter 18th January 1864, No. 109.)

No. 507. ORDER THEREON, 22nd January 1864, No. 250.

1. Communicated to the Superintending Engineer, 4th Division, for information and guidance.

2. As the work is reported to be near completion, the cost, viz., Rupees 1,040, will be defrayed from the current year's Reserve.

(Signed) CHARLES A. ORR, Colonel, R.E.,
Secretary to Government.

No. 508. Read the following Proceedings of the Madras Government in the Military Department :—

Approving of certain works in connection with the new Dragoon Barracks being included in the Budget of 1864-65. } (Here enter 12th January 1864, No. 121.)

No. 509. ORDER THEREON, 22nd January 1864, No. 251.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 510. Proceedings of the Madras Government, dated 22nd January 1864, No. 252 :—

1. The Governor in Council requests that the Controller and Auditor Public Works Accounts will proceed to Calcutta by the first opportunity with a view to assist in the Commission of enquiry into the system of Accounts in the Department Public Works. The Controller will be accompanied by his Head Accountant.

2. The Superintendent of Marine will be requested to arrange for passage being provided for Colonel Wilkieson and his Head Accountant, as also for two servants for the former and one for the latter, in the next Mail steamer proceeding to Calcutta.

3. Sanction is granted for an advance of one month's pay to the Controller and his Head Accountant respectively.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 511. Read the following Proceedings of the Madras Government in the Public Department:—

Observing that the sum proposed to be transferred from the Educational Building Budget on account of Public Works Establishment, viz., Rupees 20,000, is disproportionately large; the estimated cost of works to be executed under the superintendence of the Officers of the Public Works Department not exceeding Rupees 60,000, and stating that the Port Funds must bear their due of the cost of the Establishment in question. } (Here enter 18th January 1864, No. 41.)

No. 512. ORDER THEREON, 22nd January 1864, No. 253.

1. Communicated to the Controller and Auditor of Public Works Accounts, who will be requested to report the exact amount which should be charged against the Educational Building Budget on account of the Public Works Establishment.

2. Colonel Wilkieson will also report, in communication with the Superintending Engineers, from what particular items the sum chargeable against Local Fund works on the same account should be deducted.

3. The share of the cost of the Public Works Establishment to be borne by the Port Funds will be determined on the receipt of Colonel Wilkieson's reply.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 513. Read the following letter from Lieutenant-Colonel C. V. WILKIESON, R. E., Controller and Auditor of Public Works Accounts, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 23rd December 1863, No. 2,151:—

SIR,

1. I have the honor to forward herewith the Appropriation Return for the month of July 1863. The Returns for the Malabar and South Canara Districts were received back from the Superintending Engineer only on the 21st instant, after three different Reminders were sent. That Officer has been requested to explain the cause of the delay, which will be communicated to Government when received.

Enclosure 1.

2. Works sanctioned in the Supplemental Budget List and out of the additional allotment of three lacs, have been omitted from this Return as intimated in paragraph 2 of my letter of the 11th instant, No. 2,087, and those which were included in the Returns for May and June 1863, are deducted from the Abstract at the foot of the Return now submitted.

	RS.
May	20,283
June	9,205
Total...	29,488

3. As in some instances sanctions for repairs have been accorded out of the Reserve Fund, and brought into the Appropriation Returns accordingly, such sanctions have been distinctly shown in the Abstract so that the Appropriations out of the *bonâ fide* Reserve Fund may be seen in one view, which up to the end of July 1863 amounted to Rupees 3,36,886—of which Rupees 37,790 appertain to Appropriations for minor new works from the sum of Rupees 55,000, sanctioned on the 25th June 1863, G. O. No. 1,662.

	RS.
G. O. No. 1,325, dated 23rd May 1863, ...	310
G. O. No. 1,375, dated 29th May 1863, ...	341
G. O. No. 1,592, dated 18th June 1863, part of Rupees 3,500	1,810
G. O. No. 1,517, dated 12th June 1863, ...	10,100
G. O. No. 1,539, dated 15th June 1863, ...	6,730
Total...	19,291

P. S.—The directions in G. O. dated 19th December 1863, No. 3,761, received this morning, will be attended to in the preparation of future Returns.

No. 514. ORDER THEREON, 23rd January 1864, No. 254.

1. The works sanctioned in G. O. No. 1,927, dated 17th July 1863, do not appear in the Return for July. The Controller is requested to explain the cause of the omission.

2. In many cases the dates of sanction are incorrectly quoted. The Government hopes that the Returns for subsequent months will be free from these inaccuracies.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Ordered that the following letter be despatched:—

No. 515. From Colonel C. A. ORR, R. E., Secretary to the Government of Fort Saint George, Public Works Department, to the Secretary to the Government of India, P. W. D., dated 23rd January 1864, No. 255.

SIR,

1. I am directed by the Madras Government to forward the accompanying Appropriation Register for July 1863, prepared by the Controller and Auditor of Public Works Accounts according to the form received with Major Medley's letter No. 84, dated 4th September 1862.

2. A copy of the Proceedings reviewing the Register accompanies this letter.

No. 516. Read the following letter from Lieutenant-Colonel O. W. S. CHAMBERS, R. E., Superintending Engineer, 1st Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Waltair, 11th January 1864, No. 2,070:—

SIR,

1. In acknowledging the receipt of the Order* of Government as per margin, and in reporting the departure of the H. Company of Sappers from the Kalingia Ghát to Russelcondah, I beg to offer the following remarks.

* No. 3,701 of 15th December 1863.

2. Whilst it is, as Colonel Hill observes, more than doubtful economy sending trained Soldiers to execute work in a notoriously malarious locality, such as the Kalinghia Ghát, yet as the men had been sent there, and nearly half the working season had elapsed, it was false economy moving them till the working season was over.

3. More sickness is generated by the march up the Ghát and the march down again to Russelcondah than by a residence on the top of the Ghát, an elevated plateau, where the Sappers were located and comfortably housed—in proof of which I mention that it has been reported to me that there were but eight cases in Hospital when the Company left the work.

4. The actual Ghát work is so near completion that a few more weeks would have completed it, and it is on the Ghát work, where blasting is necessary, that the Sappers are so useful—common work can be executed by common labor, but blasting rock is a speciality.

5. It is more than doubtful whether the Ghát will be opened this season, though every effort is being made to effect its completion; it is even problematical whether one part of the line, that at a spot called Tiger rock, can be established without trained labor.

6. Had notice been given me that the men were to be removed I might have been able to prevail on Government to let them remain six weeks longer, and the object for which valuable lives have been lost and much sickness incurred, namely, the establishment of a cart-road from the plains to the table land above the Ghát, would have been effected, as it is this communi-cation must take its chance of being ever established.

7. Above the Ghâts it was estimated that there was still a year's work to be done in 1864-65, to take the line to the Bengal frontier—at present I am unable to say within what period the road will be completed.

No. 517. ORDER THEREON, 23rd January 1864, No. 256.

Communicated to the Military Department with reference to its Proceedings No. 3,903, dated 8th December 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 518. Read the following Proceedings of the Madras Government in the Military Department:—

Communicating letter from the Quarter Master General, bringing to notice the state of the road between Salem and Trichinopoly. } (Here enter 11th January 1864, No. 100.)

No. 519. ORDER THEREON, 23rd January 1864, No. 257.

Communicated to the Superintending Engineers, 5th and 6th Divisions, in continuation of Proceedings dated 20th January 1864, No. 210.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 520. Read the following Proceedings of the Madras Government in the Military Department:—

Approving for execution of the Estimate amounting to Rupees 1,900 for the construction of Receiving, Store, Surgery and Bath-rooms to the Lock Hospital at Saint Thomas' Mount, Madras District. } (Here enter 15th January 1864, No. 169.)

No. 521. ORDER THEREON, 23rd January 1864, No. 258.

1. Communicated to the Superintending Engineer, 4th Division.

2. As the Reserve is nearly exhausted the Government is unable to allot funds for the work from that source. Colonel Boileau will be requested to state whether he can provide the amount required from the allotment for new works in his District.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 522. Read the following letter from Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Cotapully, 11th January 1864, No. 1,644 :—

SIR,

I have the honor to request that I may be supplied with 12 copies of the Sheet Calendar for 1864, published at the Government Gazette Press, for the use of my own and the Range Offices.

No. 523. ORDER THEREON, 23rd January 1864, No. 259.

The Superintending Engineer, 8th Division, is authorized to pr[illegible] Sheet Calendar for the current year and to charge the cost in his c[illegible]

(Signed) CHARLES [illegible]

No. 524. Read the following Memorandum from the Secretary to the Board of Revenue, dated Madras, 15th January 1864.

Read the following:—

List of Letters received from Government and not finally disposed of for the second half year of 1863.

Board No.	District.	Date.	Purport.	Subsequent Correspondence.	Remarks.
			1861.		
1,803. P. W. D. 561.	General.	20th March.	Calling on the Board to ascertain and report whether measures cannot be adopted to make the Ferries self-supporting, at least both in Tanjore and in other Districts where they are now maintained at the cost of the State.	1,613. Circular 27th March 1861. 5,419. To Govt. 7th October ,, R. To Godavery District 28th March 1862. R. To do. 31st July 1862. R. To do. 16th Dec. ,, R. To do. 16th March ,,	Will be submitted shortly in one report.
			1862.		
7,665. P. W. D. 2,862.	Do.	1st Dec.	Requesting the Board to report fully whether such tanks as are proposed to be made over to the Ryots have cost any thing like 75 per cent. of their revenue in repairs, calculated with reference to the average expenditure of the last 10 years.	7,951. To Government 5th December 1862. 7,947. Circular 5th December 1862.	
			1863.		
684. P. W. D. 286.	Do.	3rd Feb.	Requesting the Board to obtain and submit a Statement of what the probable receipts by the levy of Cart Tax will be.	11-754. Circular 9th February 1863.	
7,997. P. W. D. 3,636.	Do.	9th Dec.		7,997. To Government 18th December.	
			1863.		
3,805. P. W. D. 1,599.	Do.	18th June.	Requesting the Board to submit their views to Government regarding the proposal made by the Committee appointed to revise the Public Works Establishment, for the repair of village tanks and roads.	51-3,839. Circular 25th June 1863.	
My. 3,467. P. W. D. 55.	Do.	12th Aug.			

Madras, 15th January 1864.

(Signed) W. HUDLESTON, *Secretary.*

…tary to Government Public Works Department with reference to No. 38.

(By Order.)

(Signed) W. HUDLESTON, *Secretary.*

No. 525. ORDER THEREON, 23rd January 1864, No. 260.

1. Ordered to be recorded.

2. The Statement of periodical returns, called for in Memorandum dated 12th January 1864, No. 66, not having been furnished along with the list above recorded, the Board is requested to supply the omission.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 526. Read the following Proceedings of the Madras Government in the Educational Department:—

Requesting the preparation of a revised Plan and Estimate for the alterations and additions to the Medical College building, Presidency District, which have been recommended by the Principal. } (Here enter 16th January 1864, No. 14.)

No. 527. ORDER THEREON, 23rd January 1864, No. 261.

Communicated to the Superintending Engineer, 4th Division, who will be requested to submit the required Plan and Estimate with the least practicable delay.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 528. Read the following Proceedings of the Madras Government in the Military Department:—

Placing the services of Lieutenants Marindin and Cumming, Royal Engineers, at the disposal of the Government of India, for employment at Port Blair and Calcutta, respectively. } (Here enter 15th January 1864, No. 179.)

No. 529. ORDER THEREON, 23rd January 1864, No. 262.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 530. Read the following letter from Lieutenant-Colonel C. V. WILKIESON, R. E., Controller and Auditor of Public Works Accounts, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 18th January 1864, No. 2,293:—

SIR,

1. From the Appropriation Registers kept in this Office, I find from time to time, as the Returns come in, and undergo examination, that excesses have taken place in several Districts, in appropriations made under the sub-divisional heads of the "Repair Budget." I have drawn the attention of the Officers concerned to these excesses, and requested of them to address Government on the subject, pointing out, in so doing, sources whence they may be met.

Enclosures 7 (to be returned).

1	Memorandum	No. 2,211,	dated	7th	January	1864.
1	Do.	No. 2,212,	,,	7th	,,	,,
1	Do.	No. 2,219,	,,	8th	,,	,,
1	Do.	No. 2,224,	,,	9th	,,	,,
1	Do.	No. 2,242,	,,	12th	,,	,,
1	Do.	No. 2,243,	,,	12th	,,	,,
1	Do.	No. 2,245,	,,	12th	,,	,,

2. I think it proper for me with reference to the recent orders from Government reviewing the "Appropriation Returns" sent from this Office, to enquire as to how I am to act in cases like those now brought to notice wherein excesses have taken place.

3. There is no rule authorizing me to cut down the appropriation, and thus balance the allotment with it; nor indeed do I think that such a rule, even if promulgated, will be in any way equitable, as the local Officers, who are the best judges, may deem the very works struck out as most necessary, and *vice versâ* for those admitted. It is therefore, for Government to decide whether I am to admit such excesses pending the receipt in each individual case of a G. O. permitting them, and whether I am at liberty to include them in the Returns compiled in this Office for the Government of India; or whether I am to return the "Appropriation Lists" to the Superintending Engineers, to reduce or alter them, as they may think fit, with a view to their being correct when received here.

4. Should the latter be ordered, I fear that very great delay will necessarily take place in the submission of the monthly "Appropriation Return" to Government, and, should this result follow the adoption of such a course, this Department cannot be held answerable for the delay.

No. 531. ORDER THEREON, 23rd January 1864, No. 263.

1. The Governor in Council has no alternative but to authorize the Controller to include the excesses referred to in this letter in the Appropriation Returns submitted to Government.

2. The Superintending Engineers will be informed that under the orders marginally noted, the sanction of Government should at once have been obtained to the changes rendered necessary in the allotments for their respective Divisions, under the several sub-divisional heads of Repair. It will also be intimated to those Officers that they will be held responsible that the aggregate amount allotted for repairs to each of the Districts under their charge is not exceeded, and that all proposals for the re-distribution of funds under the sub-divisional heads are submitted to Government in time to receive sanction by the 30th April next.

No. 1,748, 3rd July 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 532. Read the following Telegram from Colonel CHAMBERS, Waltair, to Colonel ORR, Madras, dated 19th January 1864, No. 135:—

What subordinate? An Officer or an Overseer. If the latter, there is no efficient man at hand. Better send me an European from College by Steamer. What a wild scheme to set a man to spend money uncontrolled on a work without survey or estimate.

No. 533. ORDER THEREON, 23rd January 1864, No. 264.

Ordered that the following Telegram be sent:—

"*To Colonel Chambers, Waltair viâ Vizagapatam.*

"As from your Telegram it appears that the services of an Officer are available, you can appoint one, charging his salary to work. No Officer being available, a Subordinate will, if possible, be sent. Communicate with Collector about details."

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 534. Read the following letter from Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Pulkanooth, 12th January 1864, No. 1,657:—

SIR,

I have the honor to forward a comparative Statement called for in paragraph 4 of Government Order No. 3,733, dated 17th December last.

1 Comparative Statement.

No. 535. ORDER THEREON, 23rd January 1864, No. 265.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 536. Read the following Proceedings of the Madras Government in the Military Department:—

Authorizing the omission, from the List of Unanswered References, of the requisition for a new Hospital for the Artillery at Bangalore. (Here enter 16th January 1864, No. 187.)

No. 537. ORDER THEREON, 23rd January 1864, No. 266.

Communicated to the Superintending Engineer, 5th Division, for information and guidance.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 538. Read the following letter from Lieutenant-Colonel J. C. ANDERSON, R. E., Superintending Engineer, 2nd Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Masulipatam, 16th January 1864, No. 45:—

SIR,

1. Mr. A. Colquhoun, Acting Sub-Engineer, 2nd Class, Nellore District, having applied for an extension of two months' sick leave, duly supported by a Medical Certificate from the Principal Inspector General Medical Department, I have granted it, and I have the honor to request the permission of Government to entertain a Táluq Overseer on 30 Rupees salary, to be met from the savings which may be effected from the Sub-Engineer's pay during his absence.

2. Pending the sanction of Government I have appointed A. Durmarayudu, late Sub-Overseer Nellore District, to act as Sub-Overseer from the 8th instant.

No. 539. ORDER THEREON, 23rd January 1864, No. 267.

1. The Superintending Engineer, 2nd Division, will be informed that agreeably to the Chief Engineer's Circular No. LXX of 1861, Mr. Sub-Engineer Colquhoun's application for an extension of leave on Medical Certificate should have been submitted to Government, and he will be requested to forward the application without delay.

2. With reference to paragraph 2, the Superintending Engineer, 2nd Division, will be furnished with copy of the orders marginally noted, and he will be requested to ascertain from the Superintending Engineer, 1st Division, from what date the Acting Táluq Overseer, whose entertainment was sanctioned by Government, were dispensed with. On the receipt of a reply from Major Anderson, orders will be passed regarding the employment of A. Durmarayudu.

No. 2,736, dated 25th September 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 540. Read the following letter from Lieutenant-Colonel O. W. S. CHAMBERS, R. E., Superintending Engineer, 1st Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Waltair, 7th January 1864, No. 2,021:—

SIR,

Referring to paragraph 2 of G. O. No. 3,609 of 7th December 1863, I do myself the honor of stating that the authority under which Captain Blagrave ordered the piping in question is not apparent from the records of the late Vizagapatam District Office, and that these pipes could be used for small sluices of irrigation works if their cost be reduced to one-fourth of what it is now.

No. 541. ORDER THEREON, 25th January 1864, No. 268.

The value of the pipes referred to in this letter is entered at Rupees 570 in the Store Accounts of the Vizagapatam District. The Superintending Engineer recommends that they may be used for small sluices of irrigation works and be charged for at one-fourth of that value. The Governor in Council sanctions the arrangement and grants authority for the difference being written off to "profit and loss."

(Signed). CHARLES A. ORR, Colonel, R. E.,
Secretary to Government,

No. 542. Read the following letter from Captain H. TULLOCH, R. E., Special Executive Engineer, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, Madras, dated 12th January 1864, No. 28 :—

SIR,

Pending an answer to my letter No. 26, dated 21st December 1863, I have the honor to submit for your favorable consideration this application for the immediate employment of four Lascars at the monthly charge of 24 Rupees. In order to prevent delay in my work I have at present engaged some men of this class, whom I am paying out of my own pocket. I beg however that Government will be pleased to grant me the help which I now solicit, inasmuch as I wish to avail myself of the cool season to complete all the field work in connexion with the drainage project. The weather now is so favorable that my Subordinates can be out almost all day long.

No. 543. ORDER THEREON, 25th January 1864, No. 269.

The Governor in Council grants authority for the employment of the four Lascars referred to in this letter, the charge being met from savings which it is believed will be made from the provision on account of Establishments for the current year.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 544. Read the following letter from Lieutenant-Colonel E. HEMERY, R. E., Superintending Engineer, 3rd Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Cuddapah, 9th January 1864, No. 254 :—

SIR,

With reference to Order of Government No. 3,826, dated 24th December 1863, I have the honor herewith to forward a Plan and an Estimate amounting to Rupees 350 for a Range office, and to report that Office accommodation is immediately and urgently required in the undermentioned Ranges of this Division :—

1 Plan.
1 Estimate.
1 Report.

Bellary District.

Kudlighi Range.
Anantapur do.
Raidrug do.
Pennakonda do.

Kurnool District.

Nundial Range.

No. 545. ORDER THEREON, 25th January 1864, No. 270.

Kudlighi Range.
Anantapur do.
Raidrug do.
Pennakonda do.
Nundial do.

1. Under the circumstances represented by the Superintending Engineer, 3rd Division, the Governor in Council sanctions the construction of buildings for the accommodation of the Range Offices marginally noted, the cost in each case is not to exceed Rupees 350.

2. The total amount required for these buildings, viz., Rupees 1,750, will be defrayed from the current year's Reserve.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 546. Read the following letter from Lieutenant-Colonel C. V. WILKIESON, R. E., Controller and Auditor of Public Works Accounts, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 15th January 1864, No. 2,264 :—

SIR,

1 Bill.

Road No. 5 from Meyloor to Teroopatoor, Madura, Rupees 354-0-8.

With reference to Chapter IV, paragraph 13, of the new Code, I have the honor to submit for the consideration and orders of Government the enclosed Bill for the work noted in the margin, received from the Superintending Engineer, 8th Division, and to point out that from the certificate therewith appended the work has been executed but not of the best materials or workmanship.

No. 547. ORDER THEREON, 25th January 1864, No. 271.

The Bill is sanctioned.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 548. Read the following letter from Lieutenant-Colonel O. W. S. CHAMBERS, R. E., Superintending Engineer, 1st Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Waltair, 11th January 1864, No. 2,071 :—

SIR,

1 Estimate.

1. On lately inspecting the embankments of the Mahanuddy above Aska, I found that the river was attempting to make a new bed for itself near Nowpully by cutting through a large bend several thousand yards round at that locality ; the new course being about one mile in length.

* Rupees 470.

2. As by allowing the river to take a new course, a head sluice and an irrigation duct leading off from the old course and under which much irrigated land lies would be completely abandoned, it is necessary to close the new channel cut by the river: for effecting this an Estimate* has been prepared for throwing up an extremely strong bank, faced with stone, across the new course, and the same is submitted to Government for sanction from the Reserve as the work is of an emergent nature and cannot be deferred till after the 1st of May next.

3. I beg to remark that an attempt was made last year to close the new head by barring it with an earthen bank which was carried away : hence the extreme strength of the one now proposed to be thrown up.

No. 549. ORDER THEREON, 25th January 1864, No. 272.

1. The Estimate for Rupees 470 is sanctioned.

2. As the Superintending Engineer states that the work is emergent and cannot be deferred till after the 1st May next, the Governor in Council grants authority for its execution from the current year's Reserve.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 550. Read the following letter from Lieutenant-Colonel O. W. S. CHAMBERS, R. E., Superintending Engineer, 1st Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Waltair, 7th January 1864, No. 2,019 :—

SIR,

1. With reference to G. O. No. 96 of 19th ultimo, requesting the Superintending Engineer, 4th Division, to cause a search to be made among the records of the late Central Office for certain papers connected with the project for a road from Aska to Ganjam, I do myself the honor to forward the original Plans, Estimates, &c., as per margin, and to state that they have been found among the old records transferred to this Division from Madras.

1 Plan.
1 Sketch Map.
1 Survey.
2 Estimates.

2. A list of the records just referred to was lately made out when the enclosed documents were discovered.

No. 551. ORDER THEREON, 25th January 1864, No. 273.

1. In Proceedings dated 20th November 1863, No. 3,396, the Government, in sanctioning an Estimate for a road from Russelcondah to Aska in the District of Ganjam, pointed out that it was of moment on political no less than on revenue considerations that that communication as well as the line between Aska and the coast at Ganjam should be undertaken. The Superintending Engineer was accordingly requested to prepare and submit the necessary Plans and Estimates for this latter line, and Colonel Chambers now complies with this requisition. The Estimates submitted, however, are those which were prepared in the year 1859, and considering the great rise in prices which has since taken place, it is believed that they will need revision. The Governor in Council resolves, therefore, to return the papers, and to request that they may be carefully examined, checked, and re-submitted after the 1st May next, when the question of providing funds for the work will be considered. The Budget for 1864-65, being closed, it cannot be provided for therein.

2. Colonel Chambers will be informed that the detailed Estimate for earth-work, &c., is unaccompanied by the abstract, which should have been submitted agreeably to paragraph 12, Chapter VII of the Code.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 552. Read the following letter from R. KENNEDY, Esq., Special Executive Engineer, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Adyar, 20th January 1864, No. 207 :—

SIR,

1. I have the honor to forward copy of a letter dated 15th January 1864, from Colonel Anderson, Superintending Engineer 2nd Division, requesting to know whether I can take charge of the Monapallam Light-house, which is close to the Northern Canal, and isolated from other works in Colonel Anderson's Division.

1 Copy of a letter from the Superintending Engineer, 2nd Division, dated 15th January 1864.

2. I could without inconvenience attend to this work if you should think fit to sanction my taking it over.

No. 553. ORDER THEREON, 25th January 1864, No. 274.

Sanctioned accordingly.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 554. Read the following letter from Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Conoor, 16th January 1864, No. 307 :—

SIR,

In submitting the accompanying application I have the honor to state that Mr. Merrall's health has for some time back failed to such an extent as to incapacitate him for duty at the Lawrence Asylums, and that he has been obliged to reside at Coonoor, and will probably have to quit the Hills altogether. If therefore his application be not complied with, it will be necessary to provide him with work in another Division, as except the Coimbatore Jail to which Mr. Supervisor McDonough has just been appointed, I have no suitable charge to give him in the low country.

No. 555. ORDER THEREON, 25th January 1864, No. 275.

In consideration of the circumstances urged in the papers recorded above, the Governor in Council will be prepared, on the receipt of a full acquittance from Mr. Merrall, to permit him as a special case, to retire from the service with a gratuity of twelve months' salary and the cost of an Overland passage to England.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 556. Read the following letter from Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Coonoor, 13th January 1864, No. 294 :—

SIR,

I have the honor to submit for sanction three Estimates for repairs to bridges and drains in the Cantonment roads of Ootacamund, which were seriously damaged during the excessive rains of October last, and cannot safely be left to stand another monsoon. Funds are immediately available from the Income Tax allotment of this year, amounting to Rupees 10,000, for parapet walls and metalling to the high road from Ootacamund to the Coonoor Ghát, out of which Rupees 6,895-3-0 only, being the unexpended balance of the Estimate on 30th April 1863, have been appropriated, leaving a sum of Rupees 3,104-13-0 in hand.

		RS.
1.	Re-building abutments and re-placing platform of two bridges ...	996
2.	Do. a wooden bridge	610
3.	Re-constructing a stone drain and revetment	89
	Total ...	1,695

No. 557. ORDER THEREON, 25th January 1864, No. 276.

The Governor in Council sanctions the Estimates submitted with this letter amounting in the aggregate to Rupees 1,695, and as they provide for the *re-construction* of certain bridges drains, &c., at Ootacamund, authority is granted for their cost being met from the source mentioned by the Superintending Engineer.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 558. Read the following letter from Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Pulkanooth, 12th January 1864, No. 1,660 :—

SIR,

1. Referring to Government Order No. 3,614 of the 18th December 1863, I have the honor to observe that I cannot think that the Government can be aware of the nature of the work which they have called on me to investigate with the establishment at my disposal.

2. The valley in which it is proposed to construct a dam for the supply of the irrigation under the Tambrapooney is narrow, confined by hills covered with forest, and extremely feverish; the fall of the river is great, broken by cascades and rapids, it is guessed that a dam 100 feet high will contain water enough for six days.

3. From the nature of the country, and the little that has as yet been seen of it, it is clear that nothing can be certainly known; detailed survey is principally necessary, this can only be undertaken during or immediately after the rains; the jungle is unsafe now.

4. With a deep and rapid river flowing through the valley the operations of a survey party must be liable to frequent interruptions, so that the amount of work which under ordinary circumstances could be completed in two months will probably in this case occupy six, viz., from June to December.

5. Captain Payne, Executive Engineer Madura, is undoubtedly the Officer best qualified for this duty, he is better acquainted with the country than any other person that I know and would, I believe, like the work; but I cannot see how I can spare him from his Range for six months.

6. I propose also to give him the aid of one of the Táluq Overseers, probably Mr. McNab, but I would submit for the consideration of Government that they would be put to great additional expense while so engaged, all carriage for tents and baggage must be hired at high rates from the plains, whence also all food must be procured.

7. Funds must be provided for coolies to cut the jungle and other purposes connected with the survey.

8. I would propose that if my suggestions be approved Captain Payne's travelling allowance should be raised to Rupees 150 per mensem, and the Táluq Overseer's to Rupees 50.

The addition to existing allowance 80 Rupees per month or for six months	Rupees	480
For Coolies, contingencies, &c.	„	320
Total	„	800

9. If my proposal as to the system of road-making and maintaining in No. 1,532, dated 17th December 1863, be allowed, I believe that Mr. Bywater could look after Captain Payne's Range during those six months, but if the method now pursued is to be carried on on the roads in the Zemindaries Mr. Bywater would have full occupation, and even more than he can do justice to.

No. 559. ORDER THEREON, 25th January 1864, No. 277.

1. As the Superintending Engineer, 8th Division, states that he is unable, with his present Establishment, to carry on the investigations connected with the storage of water at Papanassum, the project must lie over for the present.

2. With reference to paragraph 9, the Superintending Engineer's attention will be requested to the Proceedings of Government No. 183, dated 18th January 1864.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 560. Read the following letter from the Municipal Commissioners for the Town of Madras, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, Fort Saint George, dated Madras, 22nd January 1864 :—

SIR,

In reply to the inquiry made in the Order of Government, dated 16th instant, No. 167, we have the honor to state that we shall be happy to place the services of our Acting Assessor, Mr. G. R. Leggatt, at the disposal of Government for the duty referred to, and that he will be prepared to proceed to the Red Hills on Thursday the 28th instant.

No. 561. ORDER THEREON, 25th January 1864, No. 278.

Communicated to Mr. Fraser with reference to his letter No. 71, dated 29th December 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 562. Read the following Despatch from the Right Honorable Sir C. WOOD, Bart., Secretary of State for India (Public Works), to His Excellency the Honorable the Governor in Council, Fort Saint George, dated India Office, London, 9th December 1863, No. 19 :—

SIR,

1. With reference to former correspondence on the subject of the improvement of the Harbour of Negapatam, copies are forwarded herewith, for the consideration of your Excellency in Council, of a letter* and of its enclosure from the Directors of the Great Southern of India Railway Company, urging the early construction of certain small works estimated to cost not more than £4,000.

* Dated 20th November 1863.

2. While giving to the suggestions of the Directors the attention to which they are entitled, your Excellency will doubtless continue to bear in mind the special necessity for caution in dealing with Plans of Harbour improvements.

From H. W. NOTMAN, Esq., Secretary to the Great Southern of India Railway Company, to the Under Secretary of State for India, dated London, 2 Leadenhall Street, E. C., 20th November 1863, No. 40.

SIR,

1. I have the honor to transmit herewith copy of a Report received from the Consulting Engineer jointly with Mr. Carr, late Engineer-in-Chief of the Company, as to the minimum of work which they consider necessary to render the Harbour at Negapatam available at all times for small country craft.

2. As has already been pointed out the subject is one of very great importance to this Company, and is now all the more so that the shipments of materials on account of the extension line will shortly be commenced; irrespective of the general benefit that may be expected to accrue to the Company from increased harbour accommodation being afforded at the terminus of the line.

3. The estimated cost of the work proposed is comparatively small (£4,000), and the Directors hope, therefore, that such a representation of the case may be made to the Government of Madras as will ensure active steps being at once taken to carry out the improvements suggested.

From Messrs. G. B. BRUCE, and M. W. CARR, to the Chairman and Directors of the Great Southern of India Railway, dated Great Southern of India Railway Engineer's Office, Westminster, 24 Great George Street, November 10th 1863 :—

Negapatam Harbour.

GENTLEMEN,

1. Having before us the report of the Committee appointed by Government in 1860 to suggest the work necessary for the stability and improvement of this Harbour, and bearing in mind its present condition, we proceed, in compliance with your instructions, to report to you the minimum of work which we think necessary to make the Harbour generally available for small country craft at all times.

2. We are of opinion that this object may be obtained by running out one Pier about 40 yards into the sea, on the north side of the river mouth in continuation of the old Jetty, and in the position proposed by the Committee referred to.

3. We believe the cost of such a work should not exceed four thousand Pounds (£4,000), and that money could not be more advantageously expended on the Harbour than in this most essential of the works proposed by the Committee.

4. We think it desirable to call attention at the same time to the weak condition of the river bank opposite the Government School, and to the necessity of constantly watching and of keeping it always secure against breaching, this may be done without much present outlay ; but the Government will no doubt feel that when they are in a position to do so they may advantageously construct more permanent work for the security of the bank which separates the river from the sea at that point.

No. 563. ORDER THEREON, 26th January 1864, No. 279.

No. 2,169, 11th, September 1862.
„ 1,600, 19th, June 1863.
„ 3,055, 21st October „

1. In Proceedings marginally noted, the Government deferred the consideration of the proposals submitted by the late Deputy Chief Engineer, Southern Circle, for the construction of certain works with a view to the improvement of the Negapatam Harbour.

2. In the postponement of these works, the Government was guided by the suggestion in paragraph 5 of the letter from the Home Government No. 10, dated 25th April 1862, wherein adverting to the great uncertainty which generally attends plans for the improvement of Harbours, it advised that the opinion of some competent Harbour Engineer should be obtained before carrying them into execution.

3. With reference to previous correspondence, the Government resolves to communicate the Despatch recorded above from the Right Honorable the Secretary of State for India to the Superintending Engineer, 6th Division, for his opinion, and for such observations as he may have to offer regarding the works, the early construction of which is urged by the Directors of the Great Southern of India Railway.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 564. Read the following letter from Captain J. BEAN, R. E., Officiating Superintending Engineer, 6th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Tanjore, 16th January 1864, No. 1,560 :—

SIR,

In reply to the second paragraph of Government Order No. 19, dated 5th January 1864, I have the honor to observe that I know of no appropriation that can be made from the Budget Repairs for the maintenance* this year of the road from Trichinopoly to the Salem frontier viâ Terriore, unless the allotment of Rupees 450, under the head of Discretionary Allowance, is reserved for this purpose. The sum applied for by Captain Foord is Rupees 35 in excess of the above.

* Moiety of Rupees 970, the balance of maintenance sanctioned for eleven miles at 100 Rupees per mile.

No. 565. ORDER THEREON, 26th January 1864, No. 280.

The Governor in Council grants authority for the sum of Rupees 450, provided in Part II of the Budget for the Trichinopoly District for the current year, under the head "Discretionary Allowance," being expended on the road from Trichinopoly to the Salem frontier viâ Terriore.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 566. Read the following Proceedings of the Madras Government in the Military Department :—

Communicating letter from the Adjutant General stating that the necessary authority will be given to enable Serjeant Harris to obtain his free discharge, as soon as the report, called for, of the adjustment of his claims, is received. } (Here enter 19th January 1864, No. 228.)

No. 567. ORDER THEREON, 26th January 1864, No. 281.

Communicated to the Superintending Engineer, 1st Division, for early attention with reference to paragraph 2.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Read the following letters :—

No. 568. From Lieutenant-Colonel C. V. WILKIESON, R. E., Controller and Auditor of Public Works Accounts, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 15th January 1864, No. 2,259.

SIR,

With reference to G. O. No. 100 of 12th January 1864, communicating a list of appointments who draw Presidency house rent in Calcutta but not under Sir Charles Wood's late order about Staff Officers, I have the honor to forward a list of the similar appointments in the Madras Presidency with the amounts which each Officer would be entitled to, and request the sanction of Government may be obtained for the disbursement. From a letter I have received from Bombay, I find the Officers there all draw Presidency house rent in lieu of tentage of their rank.

		Deduct tentage of rank.	
	RS.	RS.	RS.
Deputy Secretary to Government, being a 2nd Captain,	135	75	60
Controller and Auditor, being a Lieutenant-Colonel,	180	150	30
1 Executive Engineer at Presidency, being 1st Captain,	135	75	60
2 Assistant Engineers, being Lieutenants,	90 each	50 each	80
1 Sub-Engineer, ...	...	...	20
1 Head Accountant, ...	...	...	20
			270

Being a total monthly extra of Rupees (270) two hundred and seventy.

No. 569. From Major J. H. M. SHAW STEWART, R. E., Deputy Secretary to Government, Public Works Department, to Colonel C. A. ORR, R. E , Secretary to Government, Public Works Department, dated Chepauk, 15th January 1864.

SIR,

1. The Government of India having ordered* the staff salary of the appointment held by me to be reduced from Rupees 800 to Rupees 600 per mensem, in order to assimilate it with the salary of the corresponding post under the Bombay Government, I have the honor to bring to your notice that the Under Secretary to the Bombay Government in the Public Works Department draws Presidency† house rent in lieu of the tentage‡ of his rank, the result being an addition to his staff salary of Rupees 60 per mensem. I therefore request that you will be so good as to recommend to Government that the Deputy Secretary here be also permitted to draw Presidency house rent on the scale sanctioned in Bombay in lieu of the tentage of his rank, in order that the appointments in the two Presidencies may be placed in all respects on the same footing. As the retrenchment Order of the Government of India had retrospective effect, I trust that the allowance for house rent may also be sanctioned retrospectively.

* G. O. 12th November 1863, No. 3,280.
Do. 6th January 1864, No. 39.

† Rupees 135 per mensem.

‡ Rupees 75 per mensem.

2. From the Memorandum which accompanied the Government Order§ of the 12th instant, it appears that the Under Secretary to the Government of India, is entitled to Presidency house rent on the same scale as is allowed in Bombay.

§ No. 100.

No. 570. ORDER THEREON, 26th January 1864, No. 282.

The Government is not disposed to submit the foregoing applications for Presidency house rent to the Government of India.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 571. Read the following letter from Lieutenant-Colonel C. V. WILKIESON, R. E., Controller and Auditor of Public Works Accounts, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras 21st January 1864, No. 2,327 :—

SIR,

1. I have the honor to forward a letter from the Superintending Engineer, 1st Division, in which he requests that certain corrections may be made in the "Appropriation Register" of his Division, Vizagapatam District, for May 1863. The Return for that month is now before the Government of India, I beg, therefore, that Lieutenant-Colonel Chamber's letter may be forwarded to them in continuation thereof.

1 Letter from the Superintending Engineer, 1st Division, No. 287, dated 7th January 1864.
1 Memorandum from this Office No. 2,084, dated 11th December 1863. (To be returned.)

G. O. No. 3,592, dated 5th Dec. 1863.

2. While Rupees 29,771 had been already appropriated from the head "Metalled Roads," the Superintending Engineer proposed the transfer of a part of it to the head "Accommodation for Troops," vide G. O. No. 3,445, dated 25th November 1863.

Memorandum from the Superintending Engineer, 1st Division, to Lieutenant-Colonel C. V. WILKIESON, R. E., Controller and Auditor of Public Works Accounts, dated Waltair, 7th January 1864, No. 287.

1. With reference to the Controller's Memorandum No. 2,084 of 11th instant, the undersigned has the honor to state that the difference* between the revised allotment for metalled roads and the amount already

* Rupees 1,530.

appropriated under this head will be squarred by the corrections which are below pointed out, and which it is requested may be made in the return of "Appropriations" for the month of May 1863:—

	From Appropriation.	To Appropriation.
Branch road from Ganjoovaka to Penzole... ...	2,850	2,186
Do. from Tantipurty to Aukapilly...	980	114
Total...	3,830	2,300

2. The other discrepancies noted in paragraphs 1, 3 and 4 will be rectified in the next returns of "Appropriations."

(Signed) O. W. S. CHAMBERS, Lieut.-Colonel, R. E.,
Superintending Engineer, 1st Division.

No. 572. ORDER THEREON, 26th January 1864, No. 283.

Ordered that copies of the foregoing letter and its enclosure be forwarded to the Government of India.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Ordered that the following letter be despatched:—

No. 573. From Colonel C. A. ORR, R. E., Secretary to the Government of Fort Saint George, Public Works Department, to the Secretary to the Government of India, P. W. D., dated 26th January 1864, No. 284.

SIR,

I am directed to forward a letter* from the Controller and Auditor of Public Works Accounts giving cover to one from the Superintending Engineer, 1st Division, requesting that certain corrections may be made in the Appropriation Register for May 1863, transmitted with my letter No. 3,593, dated 5th December 1863.

* No. 2,327, dated 21st January 1864.

No. 574. Read the following letter from Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 11th January 1864, No. 4,490:—

SIR,

1. With reference to paragraph 9 of my letter to Government, No. 2,973, dated 22nd October 1863, and their orders thereon, No. 3,220, dated 5th November 1863, I have the honor to state that from information furnished to me by Messrs. Knight & Co. regarding the rates at which they are prepared to supply Iron Girders, cross beams, &c., I find that if they are used for the proposed bridge across the Palar river near Chingleput, the cost of the work would be Rupees 2,15,000, or Rupees 1,54,400 in excess of the sum Rupees 60,600 sanctioned in the orders of Government above quoted for the completion of the bridge with masonry arches.

2. Under these circumstances I am precluded from recommending the introduction of Iron Girders.

No. 575. ORDER THEREON, 26th January 1864, No. 285.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Read the following papers :—

No. 576. From Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Coonoor, 12th January 1864, No. 292 :—

SIR,

1. I have the honor, with reference to paragraph 5 of Government Order No. 3,414 of 21st November 1863, to submit for sanction a plan, with estimate amounting to Rupees 350, for constructing a Range Office at Pollachy.

2. As we have no funds available for new works, I request that the necessary sanction may be given out of the Reserve Fund of the current year.

3. The ground upon which the building is to be constructed is the property of the Department of Public Works.

No. 577. From Lieutenant-Colonel O. W. S. CHAMBERS, R. E., Superintending Engineer, 1st Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Waltair, 8th January 1864, No. 2,054.

SIR,

1. I do myself the honor of submitting for the consideration of Government an Estimate, amounting to 350 Rupees, for the construction of an Office at Berhampore, the head quarters of the second Range of the Ganjam District.

1 Estimate.

2. Captain Philipps is now paying house rent for a Bungalow at a station where no public building is available for an Engineer Office, and I am under the impression that his case is one that should be disposed of by a Government grant as laid down in paragraph 5 of No. 3,414 of 21st November 1863.

No. 578. ORDER THEREON, 26th January 1864, No. 286.

1. The Estimates are sanctioned.

2. As the Reserve is nearly exhausted, the Government is unable to allot funds for the works during the current year from that source, but it will be prepared to authorize their execution if the Superintending Engineers can provide the amount required in each case from the allotments for other new works in their respective Divisions. In the event of the Superintending Engineers being unable to provide the requisite funds, applications for special grants should be made after the 1st May next.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 579. Read the following letter from Major-General S. O. E. LUDLOW, Consulting Engineer for Irrigation and Canal Company, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Saint Thomé, 9th January 1864, No. 131 :—

SIR,

In continuation of my letter No. 111 of the 1st December 1863, I have the honor to forward the accompanying Statement of expenditure incurred during November 1863 in comparison with the Budget allotment for the year 1863-64.

Statement of expenditure on account of the operations of the Madras Irrigation and Canal Company, during the month of November 1863.

Description of charge.	Budget allotment.	Expenditure. Up to the end of last month.	In this month (November 1863).	Total.	Remainder of allotment.
From State Fund.	RS.	RS.	RS.	RS.	RS.
Consulting Engineer's Establishment	33,000	7,436	1,187	8,623	24,377
Deputy Collector and his do....	7,900	3,627	606	4,233	3,667
Purchase money of land. Kurnool....	92,100	8,601	512	9,113	82,987
Purchase money of land. Cuddapah and Nellore.	1,00,000	...	...	...	1,00,000
Total...	2,33,000	19,664	2,305	21,969	2,11,031
From Guaranteed Capital.					
Establishment and Contingencies	4,66,000	1,32,850	26,296	1,59,146	2,56,854
Construction (original works).	24,14,000	5,18,130	99,158	6,17,288	17,96,712
Plant and Stores	3,00,000	90,629	18,680	1,09,309	1,90,691
Total ...	31,30,000	7,41,609	1,44,134	8,85,743	22,44,257
Grand total...	33,63,000	7,61,273	1,46,439	9,07,712	24,55,288

Cons. Engrs. Office, I. & C. Company,
Saint Thomé,
9th January 1864.

(Signed) S. O. E. LUDLOW, Major-General,
Cons. Engr. for I. & C. Company.

No. 580. ORDER THEREON, 26th January 1864, No. 287.

1. Ordered to be recorded.

2. The Government observes that the expenditure* from "Guaranteed Capital" during the seven months ended 30th November 1863 amounted to little more than one-fourth of the allotment† for the current year.

* Rupees 8,85,743.

† Rupees 31,30,000.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 581. Read the following Proceedings of the Madras Government in the Judicial Department:—

Requesting that the Superintending Engineer may be directed to inspect the present Jailor's house at Guindy, Madras District, and ascertain whether it cannot be put into an efficient repair at a cost considerably below the estimated expense of a new one. } (Here enter 18th January 1864, No. 68.)

No. 582. ORDER THEREON, 26th January 1864, No. 288.

Communicated to the Superintending Engineer, 4th Division, for early attention.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 583. Read the following letter from Lieutenant-Colonel H. W. HITCHINS, R. E., Superintending Engineer, 5th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Cuddalore, 14th January 1864, No. 1,727:—

SIR,

1 Plan.
1 Abstract;
Estimate.

1. With reference to paragraph 5 of the Proceedings of Government dated the 21st November last, No. 3,414, I have the honor to submit a Plan and Estimate amounting to Rupees 350 for constructing a Range Office at Namakal, the head quarters of the Ahtoor Range, in the Salem District.

		Rs.
Portion of the allotment for the Cuddalore Court House not required. Order of Govt, dated 13th Nov. 1863, No. 3,289.		10,000
Do. for the construction of the Stone Vanghanies on the bank of the Cavery River.	Rs. 3,910	
Order of Govt, dated 7th Dec 1863, No. 3,595, for providing glazed Ventilators for the cells on the ground floor of the Salem Jail	„ 3,040	
Letter to Government, dated 24th December 1863, No. 1,689, for a Sluice for the Vadamanary tank.	„ 690	
		7,640
		2,360

2. There is nothing but an Overseer's shed at that place, and which is in a dilapidated state from its having been originally built of perishable materials, and as the Sub-Engineer has repeatedly brought to my notice the great inconvenience he is subjected to from the want of some suitable place to carry on his Office duties, as also to preserve the Records, I have to beg that early sanction may be given to this Estimate.

3. The cost will be defrayed from the amount available from the 10,000 Rupees, portion of the allotment for the Cuddalore Court House.

No. 584. ORDER THEREON, 26th January 1864, No. 289.

Sanctioned from the funds proposed.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 585. Read the following letter from Lieutenant-Colonel J. P. BEADLE, R. E., Officiating Secretary to the Government of India, Public Works Department, to the Secretary to the Government of Madras, in the Public Works Department, dated Fort William, 29th December 1863, No. 5,398:—

SIR,

"After full consideration of the Minutes which accompanied Madras Public Works letter No. 69, to Secretary of State, the Government of India, authorizes, as a temporary measure and until the instructions of the Secretary of State are received, the payment of the full salaries of all the appointments made by the Government of Madras from the dates of the same, with the single exception of that of the Under-Secretary, which is to be Rupees 600, the salary of the Bombay appointment."

1. The Telegram entered in the margin has been despatched to-day.

2. On the assurance that the instructions conveyed in the Telegram of 25th September, and in Government of India's letter No. 2,537 of the same date, cannot be carried into effect without disorganizing the whole of the Public Works arrangements in Madras, the operation of the letter has now been suspended, pending the receipt of a reply from Her Majesty's Secretary of State.

No. 586. ORDER THEREON, 27th January 1864, No. 290.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 587. Read the following letter from Lieutenant-Colonel E. HEMERY, R. E., Superintending Engineer, 3rd Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Cuddapah, 8th January 1864, No. 252:—

SIR,

1 Original letter.
1 Statement.

1. I have the honor herewith to submit for the favorable consideration of Government an application from Captain Fischer, Executive Engineer in charge of Military buildings at Bellary and Ramandrug, for a small increase to his Office establishment, which at present consists of a Draughtsman on 40 and an Accountant on 35 Rupees a month.

2. Captain Fischer requests that the Accountant's pay be increased to 50 Rupees, and that a Writer be allowed on 25 Rupees a month.

3. Considering the large number of Military works now under construction at Bellary and Ramandrug, I beg strongly to recommend the increase of Office establishment now applied for. At present Captain Fischer's time is too much taken up with Office work to enable him efficiently to attend to his Executive duties, and as he very justly points out, even with the proposed increase, his establishment will be far below that sanctioned for Bangalore and the Neilgherries.

No. 588. ORDER THEREON, 27th January 1864, No. 291.

The Governor in Council is unable to sanction the additional Establishment applied for in this letter.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 589. Read the following letter from Major-General S. O. E. LUDLOW, Consulting Engineer for Irrigation and Canal Company, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Saint Thomé, 11th January 1864, No. 132:—

SIR,

1. In continuation of my No. 119 of the 12th ultimo, I have the honor to submit for the information of Government copies of further correspondence which has passed between myself and the Agent, on the subject of cash balances in the hands of the Company's Officers.

2. On the 4th and 12th December, the Acting Agent forwarded Drafts for my countersignature amounting in the aggregate to Rupees 1,86,090, which I declined to pass as the money remaining in the hands of the Company's Officers on the 1st December was more than sufficient for expenditure up to the end of January 1864.

3. In reply the Agent writes in the accompanying letter,* No. 1,774, that he has satisfactorily shown therein that his applications for funds were not without sufficient grounds; but it will be observed that this letter affords explanation only with regard to certain discrepancies pointed out by me in the statement of receipts and disbursements, but that nothing whatever is mentioned in it as to the necessity of the advance of Rupees 1,86,090 which I refused to sanction.

* Dated 19th December 1863.

4. But from the Agent's No. 1,774, referred to above, it appeared that his own cash balance at Madras on the 10th December had been reduced to the small sum of Rupees 8,831-15-0, owing to his having made remittances to the Engineers, for which it appears to me there was no actual necessity. He had also applied to the Accountant General for additional bills on the provincial Treasuries to the amount of Rupees 1,11,000 for transmission to the Divisions. It being necessary

that he should be supplied with funds to meet these Treasury bills, and other demands that might be made, I passed his drafts, under reference, to the amount of Rupees 1,86,090, but at the same time remarked that I protested against the imprudence of leaving such large cash balances in the Divisions, and that the responsibility of any loss which might result therefrom would rest entirely with himself. It will be seen that including the Treasury bills last applied for to the Accountant General, the Divisional Officers will have on hand about 2,66,258 Rupees after meeting all expenditure up to the end of December 1863, a very much larger sum than I think there is any necessity for.

5. From the circumstances above detailed it appears to me that the applications of the Executive Engineers for advances are made without due consideration of their probable actual requirements and without reference to any reliable standard, and I would suggest that the advances to be made to them each month, be regulated by the average expenditure of the last three months, the accounts of which have been rendered, and that a balance not exceeding one month's expenditure be allowed to remain in the Divisional cash chest on the 1st of each month, in order to provide for the expenditure between that date and the period on which the next advance would become available, which would probably not exceed a month at the outside.

6. If the Divisional Officer on the 1st of each month sends in his Estimate of expenditure for the following month to the Chief Engineer, it would easily reach the Central Office by the 5th and Madras by the 15th, so as to admit of the funds being in the Executive Engineer's hands before the 1st of the following month.

7. If on the 1st of any month the Executive Engineer should find that his balance in hand exceeds the amount of last three months' average expenditure, the excess should be deducted by him from the fresh Indent which he forwards.

8. I would also propose that a sum not exceeding one lac of Rupees be kept in the hands of the Agent to meet any unforeseen contingency.

9. If the Government approve of the advances being regulated as now suggested, I will communicate with the Agent on the subject.

No. 590. Order thereon, 27th January 1864, No. 292.

The Governor in Council considers it highly desirable that advances to the Officers of the Irrigation Company should be restricted to actual requirements and in order to this, sanctions the course recommended by the Consulting Engineer in paragraphs 5 to 8 of his letter recorded above.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 591. Read the following Diary of W. FRASER, Esq., C. E., for December 1863, dated Red Hills, 10th January 1864:—

Madras Water Supply.

1. Being now in a position to explain somewhat in detail what appears to me to be the most practicable scheme (in connection with the Cortelliar and the Red Hill lake), I append to this report a tracing upon which are marked in red the results of the trial and other surveys which were made up to the end of December 1863.

2. The heights above mean sea level of the several points referred to are marked in red figures upon the tracing. These figures will show what the ground to be occupied by the channels and other works will permit us to do. As these heights are important I will repeat them here

This report being merely intended to give a general idea of what the project is likely to be the heights are given in the nearest round numbers :—

	Feet.
Mean level of the sea	00
Spur tank, low part	15
Poonamallee road where line crosses ...	19
Railway where line crosses	31
Land at do.	24
Paddy fields at the Red Hill lake ...	21
Calingulah of do., solid part	31
Top of dam stones of do.	36 highest.
Proposed calingulah...	40 by Captain O'Connell, may be higher.
Land at Cholavaram lake	45
Calingulah of do.	47
Top of dam stones of do.	50
Proposed calingulah	59 to 62
Summit on the line to the Cortelliar ...	71
Bed of Cortelliar where dam is to be ...	60
Land at do., general line	78
Top of proposed dam	69 may be higher.

The Spur tank, Red Hill lake and Cholavaram lake are colored a deep blue on the tracing.

3. The general design is :—

I. To construct a dam across the Cortelliar at the point marked A.

II. To cut a supply channel to Cholavaram lake A, B, C, *about* eight miles in length.

III. To raise this lake, say, 12 feet.

The bund will be about one mile in length.

IV. To connect this lake with the Red Hill lake by the channel marked D, E, about four miles in length.

V. To raise the Red Hill Lake from 9 to 12 feet. This bund is about one mile in length.

VI. To cut a channel from the Red Hill lake to Spur tank in Madras. This channel will be about eight miles in length.

VII. To connect Nos. IV and VI by the short channel marked F, O.

VIII. To construct a filter and a pure water basin in the Spur tank.

These works would leave the water ready for distribution by whatever means might subsequently be approved of.

4. No. I. The point selected for the dam is the lowest on the river that will enable us to give a sufficient fall to the supply channel A, B, C, and to raise Cholavaram lake about 12 feet.

No. II. There is no peculiar difficulty to be encountered in the line of this channel. With the exception of a short distance close to the river, and another short reach at the summit marked B, at both of which places the excavation must be deep, the cutting need be no more than may be required.

We can take in the two drainage streams marked on the tracing.

The line of the proposed channel follows, for some distance, that of a channel which was excavated more than 100 years ago from the eastern drainage stream to Cholavaram lake. It was closed many years ago in consequence of a dispute amongst the villagers.

No. III. The detailed survey and sections of this lake are not yet completed, and I cannot therefore say how many cubic yards can be stored by raising it 12 feet; but the quantity will probably exceed 20 millions.

Very little damage will be done by raising it, as nearly all the surrounding land is a barren waste.

One small village, however, would be swamped, but it is not of much value.

The laterite hills at each end of this bund will yield any quantity of stone required.

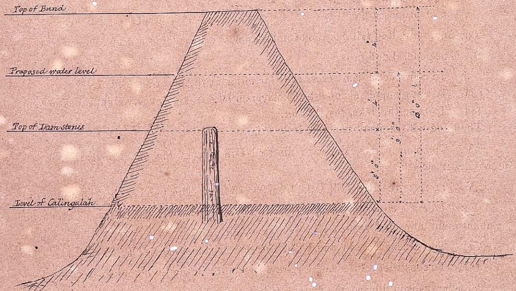
No. IV. There is no difficulty in the way of this channel. We can get any depth of cutting we require.

No. V. The detailed survey and sections of the Red Hill lake not being finished, I cannot yet tell how many cubic yards can be stored in it at any particular height.

In his report, P. 92, Captain O'Connell states that by raising the bund 9 feet the capacity of the lake would be increased to about 43 millions of cubic yards.

There is a misconception about this. The 9 feet was calculated from the level of the calingulah, but the top of the dam stones is nearly 5 feet higher, and to this height the Merasidars have raised the water whenever the rain fall enabled them to do so: so that instead of 9 feet, the proposed addition to the height of the lake was practically only 4 feet.

This would have involved a very small addition to the height of the present bund, as the following sketch will show :—



If the 9 feet be taken from the top of the dam stones, we could probably store 70 millions of cubic yards ; but on this subject I cannot speak positively until the survey and sections are completed. I allude to it now only to show that in these two lakes a large quantity of water can be stored with a moderate raising of their bunds.

No. VI. For this channel several trial lines have been levelled. I have now reduced the choice to two, and which of these I shall recommend will depend on the view taken of the following point, namely, whether we should provide the means of supplying Madras direct from Cholavaram lake, without passing the water throuh the Red Hill lake.

If the Red Hill lake become exhausted it would be better to draw directly from Cholavaram by the connecting channel F. C., than to run the water from the latter lake into the former and then on to Madras.

The ground along which this channel can be taken presents no peculiar difficulty ; but it requires to be carefully surveyed and laid out as the fall is only about 6 inches in a mile.

5. If we assume the population of Madras to be 500,000 and that they would consume 20 gallons per head per day, the whole quantity required in a year would be about 22 millions of cubic yards.

The two lakes, enlarged as suggested above, would hold about 90 millions of cubic yards, so that after Madras was supplied there would be a large quantity which could be used for the cultivation of a portion of the land now lying waste between them and the sea.

These two lakes are well situated for this purpose, as they command the whole country down to Cochrane's Canal, and between the Cooum on the south, and the Cortelliar on the north.

They could be replenished from time to time from basins constructed on the Naggery river and its branches as formerly proposed.

This part of the scheme will of course depend on the result of the observations now being made on the quantity of surplus water discharged by the Naggery and Cortelliar rivers.

6. The design described above and shown on the tracing is that which I am now having surveyed in detail, and I trust that my proceedings will meet with the approval of Government.

After having traversed the country in all directions, and having before me the results of numerous lines of levels, I am of opinion that if the Red Hill lake is to be made use of, the general design now suggested is the best the country affords.

I also believe that all the necessary works up to the delivery of the water in the Spur tank, and including compensation for damages, would not cost more than 6 lacs of Rupees; but this opinion is expressed now on insufficient data, and is only intended to give to Government some idea of the probable cost.

Improvement of the Cooum.

7. The plans for this project have been ready for some time, but it was considered advisable that the proposed sewer across the Cooum and on to the north of Black Town should answer the purpose of the main sewer of the general drainage scheme now under consideration by Captain Tulloch. It therefore became necessary to delay the submission of the Cooum project until the general drainage scheme was sufficiently matured to enable Captain Tulloch to lay down the main sewer.

The projecting of this main drain involved a good deal of consideration. I have been frequently in consultation with Captain Tulloch about it, and I believe the Plans will be ready shortly when the Cooum project will be sent up.

General Remarks.

8. On the 7th of December, Mr. Stephenson, one of the two temporary Surveyors employed, became sick, and was obliged to leave.

He subsequently accepted an appointment under the Irrigation Company on a salary 70 Rupees a month more than he received on this Survey.

This reduced my party to two, Mr. Supervisor Ottman and Mr. Ward. The latter was employed on the detailed survey and sections of Cholavaram lake, the former was principally engaged with myself on the trial sections and surveys, and in receiving instructions on the ground.

All this preliminary work having been settled a considerable portion of my own time has been occupied in detailed surveying and levelling.

9. I should be glad if Government would be good enough to give me such an Establishment as would prevent the occupation of my own time in detailed surveying and levelling, and enable me to get the necessary detailed Plans prepared speedily.

When the preparation of such Plans drag on from month to month, it becomes not only vexatious to the Engineer, but unsatisfactory to Government.

10. In my letter No. 75, dated 28th December 1863, I had the honor of explaining how I thought a cheap and effective Establishment could be organized, and the advantages that would

accrue from having it. Since that date I have received the Order of Government No. 4, dated 4th January 1864, conveying instructions about three other projects besides the one on which I am engaged.

Had I the means, I could go to work at once on these projects, and submit the Plans and Estimates within a reasonable time, a course which would not only be the most economical but the most satisfactory to Government.

11. It is, I believe, a novel thing to find an Officer complaining that he has not enough to do, but this is really my case.

My present staff is not able to make Surveys and prepare Plans as fast as I can examine the ground, make trial sections, decide on the design, and mark the work out.

I need not again explain that it is not economical to permit me to be employed in any other way. In conclusion I trust that I shall be excused for again referring to this subject.

No. 592 ORDER THEREON, 27th January 1864, No. 293.

1. The proceedings reported in paragraphs 1 to 6 are approved.

2. Mr. Fraser will be requested to enter fully into the details not only of that part of the project which relates to the storage, but also of those involved in the distribution of the water. On these matters, however, Mr. Fraser will require definite instructions, and to enable the Government to furnish them he will be requested to submit for its decision such points relating to the character and amount of the supply, the mode of distribution, payment for water, &c., as will require to be considered previous to the discussion of the details of the plan.

3. The Government quite agrees with Mr. Fraser that he should be provided with an Establishment sufficient to keep him fully employed. Ample provision for that purpose has accordingly been made in the Budget for 1864-65.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 593. Read the following Proceedings of the Board of Revenue, dated 15th January 1864:—

Read the following letter from J. W. B. DYKES, Esq., Collector of Nellore, to W. HUDLESTON, Esq., Secretary to the Board of Revenue, Madras, dated Podalakuru, 7th January 1864, No. 3.

SIR,

1. Having called upon the Officers of the Public Works Department to furnish me with a Plan and Estimate for constructing a Toll house and gate at the entrance to the roadway on the Pennar Anicut, the Superintending Engineer in furnishing* me with the Plan, &c., accordingly has expressed a doubt whether the laying out of the proceeds of the Anicut toll in this manner would be authorized, unless special sanction for the purpose previously obtained with reference to the Proceedings of Government in the Revenue Department dated 5th June 1862, No. 1,562, which simply authorizes the proceeds of this toll being expended upon *the maintenance of the Anicut roadway.* I have the honor therefore to submit for the Board's consideration and orders copy of the Superintending Engineer's letter and of my reply thereto of to-day.

* No. 12, dated 16th December 1863.

2. The Estimate provides, in addition to a Toll house and gate, for an expenditure of Rupees 200 for improving the Anicut approaches, and as these approaches are at present very narrow and dangerous especially in respect to this item there can be no doubt. And under the circumstances I have requested the Superintending Engineer to carry out the whole work without waiting for further instructions. Should the Board, however, view the case differently, I beg I may be favored with early orders.

Submitted for the sanction of Government. The Toll house and gate are evidently indispensably necessary for carrying out the system of Tolls on the Anicut.

(True Copy and Extract.)

(Signed) W. HUDLESTON, *Secretary.*

Transferred to the Department of Public Works.

(Signed) J. D. SIM,
Secretary to Government.

16th January 1864.

No. 594. ORDER THEREON, 27th January 1864, No. 294.

The Government approves of the erection of a Toll house and gate with the proceeds of the tolls levied on the roadway over the Pennar Anicut in Nellore. It is presumed that the collections will suffice to cover the cost of the work after meeting charges which are usually defrayed from them.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 595. Read the following Proceedings of the Madras Government in the Judicial Department;—

Communicating letter from the Government of India, stating that, subject to further consideration of the Public Works Budget of the Madras Presidency, the proposed charge of 1,29,000 in 1864-65, for Police buildings, has been sanctioned. } (Here enter 21st January 1864, No. 83.)

No. 596. ORDER THEREON, 27th January 1864, No. 295.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 597. Read the following letter from Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Pulni, 14th January 1864, No. 1,664:—

SIR,

1. In reply to Government Order No. 66 of the 8th instant, I have the honor to request that I may be supplied with the design of the Lightning Conductor proposed for the Magazine at Bellary.

2. The conductor at Palamcottah is separate from the building; but this I understood to be absolutely necessary, as the walls are likely to be injured by the passage of electric fluid.

3. The Magazine at Palamcottah is small, and is further protected by lofty trees in the near neighbourhood, the consideration of these facts may perhaps render unnecessary the expenditure required for altering the conductor.

No. 598. ORDER THEREON, 28th January 1864, No. 296.

The Governor in Council still considers it desirable that the Lightning Conductor at Palamcottah should be altered as originally proposed. The design applied for in paragraph 1 will accordingly be forwarded to the Superintending Engineer.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 599. Read the following letter from Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Coonoor, 21st January 1864, No. 313:—

SIR,

In anticipation of the Statements called for in Government Order No. 3,681 of 14th December, which are now under preparation, I have the honor to suggest the following immediate transfers of sanctions, viz:—

Three out of five Estimates aggregating Rupees 3,950, sanctioned in Government Order No. 129 of 15th January.

Malabar District Budget sanction of Rupees 9,960, for Recreation Room at Cannanore, (available under Government Order No. 3,582 of 5th December) to be appropriated to the extent of Rupees 8,540, for Military works at Wellington, referred to in paragraph 1 of Government Order No. 3,594 of 7th December.

Rupees 6,000 out of Coimbatore Budget sanctions of Rupees 29,500 for improvements to the Arkencotta and Thadapully Channels, which the Range Officer cannot spend, to be made available for carrying on the Lawrence Asylum works.

This paragraph meets the requisition in paragraph 2 of Government Order No. 162 of 16th January 1864.

Rupees 3,000 out of Canara Budget sanction of Rupees 15,300 for bridges below Charmady Ghát, which cannot be spent, to be made available for carrying on work on the Vitla and Hossdroog road, stopped for want of funds since 1st January; regarding which *vide* paragraph 4 of letter printed with Government Order No. 3,514 of 30th November.

Rupees 1,300 out of Rupees 6,300, Income Tax sanction for closing the mouth of Goorpoor river at Mangalore, whereof nothing has yet been spent, and Rupees 5,000 will be ample to reserve for current year, proposed to be spent in extending the quay at Mangalore, in a manner to be agreed upon by Collector and Superintending Engineer. It is my intention to proceed by next Steamer to Mangalore, and both the quay and harbour will receive my attention when there.

No. 600. ORDER THEREON, 28th January 1864, No. 297.

1. The Governor in Council sanctions the re-distribution of funds proposed in the foregoing letter.

Joint Magistrate's Office at Wellington, Rupees 3,390.
Additions to Police Station House at Wellington, Rupees 1,590.

2. In regard to the appropriation of Rupees 8,540 and of the allotment of Rupees 9,960 for the Recreation Room in Cannanore, the Superintending Engineer will be careful to see that no outlay is incurred upon the two works noted in the margin, until the Estimates referred to the Judicial Department in G. O. No. 129, dated 15th January 1864, have received the sanction of Government.

* Rupees 1,420.

3. Colonel Walker will submit proposals for the appropriation of the balance* still available from the allotment of Rupees 9,960 alluded to above.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 601. Read the following Proceedings of the Madras Government in the Revenue Department:—

Forwarding copy of their letter to the Government of India, requesting sanction for the entry, in the Revenue Budget, of certain Establishments which are erroneously charged to Public Works. (Here enter 18th January 1864, No. 104.)

No. 602. ORDER THEREON, 28th January 1864, No. 298.

Communicated to the Superintending Engineers and to the Controller and Auditor of Public Works Accounts.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 603. Read the following Proceedings of the Governor General of India in Council, Public Works Department, dated Fort William, 28th December 1863, Circular No. 63 :—

Preliminary Statement of Public Works Funds for the Budget of 1864-65.

Read again—

P. W. D. Resolution, Proceedings of the Right Honorable the Governor General of India, No. 2,331 G. G., dated 24th September 1863, which requests the Financial Department to state what is to be the total sum on which the Public Works Budgets for 1864-65 are to be based.

RESOLUTION.—It is impossible for the Financial Department at this early period to state, with any certainty, what sum can be appropriated for Public Works in the year 1864-65 ; but as it is necessary for the regular and timely framing of the Budget-Estimate for that year that some standard should be taken upon which the allotments may be made to the different Local Administrations, His Excellency the Governor General in Council is pleased to determine that the calculations for the Budget-Estimate for 1864-65 shall, for the present, be made as if the total sum to be appropriated were the same as was appropriated for the current year, that is —

Works of Public Improvement	Rupees	2,61,80,000
Civil Buildings...	,,	57,00,000
Military Works, Ordinary	,,	65,00,000
	Total...	3,83,80,000

2. As the sum of Rupees 23,80,000, which was set apart for the year 1863-64, in order that it might be treated as a Reserve, has been included in this provisional appropriation for 1864-65, the several Administrations should frame their Estimates on the understanding that they will be limited to the sums severally assigned to them.

3. Only ordinary Military Works have been included in this arrangement. Separate provision will be made for carrying on the new works commenced or contemplated, for the accommodation of Troops, after the necessary information has been obtained.

4. A provisional allotment of the total sum of Rupees 3,83,80,000 must, in like manner, be made among the Administrations, in order to enable their respective Estimates to be framed. For this purpose, the following allocation has, for the present, been determined upon, but it must be understood that the respective sums are to be regarded as *maximum* amounts, which are in no case to be exceeded, while the Governor General in Council reserves to himself the power of altering the proportions in any case in which it may appear to him that the public service in any part of India requires a larger expenditure than in any other.

	Lakhs.
Madras	64
Bombay	62
Bengal	56½
N. W. Provinces...	65
Punjab	51
Oudh	21
Central Provinces	27½
Hyderabad	8
Burmah	19½
Straits...	4
Minor Administrations	5¼
Total...	383¾

Ordered that the above Resolution be forwarded for information and guidance to the several Governments and Administrations concerned.

Also, that copies be forwarded to the Financial, Home, Foreign, and Military Departments for information.

(Signed) J. P. BEADLE, Lieut.-Colonel, R. E.,
Offg. Secy. to the Govt. of India.

No. 604. ORDER THEREON, 28th January 1864, No. 299.

Ordered to be recorded.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 605. Read the following :—

No. 2,238.

List of Pill received from the Superintending Engineer of the 6th Division, submitted for the sanction of Government which exceeds its Estimate by more than 5 per cent.

Audit No.	Date of Bill.	Description of Works.	Amount of Estimate.	Amount of Bill.	Excess.	Per centage	The year to which the expenditure appertaining.	Date on which the Bill was received in this office.	Remarks.
			RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.			
1,024	1863. 30th Nov....	Defending the south bank of Vennaur with four Hurdle Groynes in the limits of Ramasawmy Kottadam.	463 0 0	420 5 6	... ...	... ...	1862-63	First received on the 15th Dec. 1863, returned 23rd of tha same month, again received 9th Jan. 1864.	I called on the Superintending Engineer for explanation respecting the excess of expenditure on the sanctioned Estimate, and for the authority for transferring the saving from another Estimate to this, who in reply states that the transfer was not made under any particular rule, but as the both Estimates were for the same description of work and for the protection of the same bank, it was considered advisable to transfer the saving in one to cover the excess in the other estimate rather than apply for a supplemental sanction for the latter, which proceedings was sanctioned by the late Acting District Engineer of Tanjore.
1,023	Do.	Do.		91 0 0	... ...	... ...	1863-64		
				511 5 6	48 5 6	10 7 0			

Madras,
12th January 1864.

(Signed) C. V. WILKIESON, Lieut-Colonel, R. E.,
Controller and Auditor of P. W. Accounts.

No. 606. ORDER THEREON, 28th January 1864, No. 300.

The Bill is sanctioned.

(Signed) CHARLES, A. R. Colonel, R. E.,
Secretary to Government.

No. 607. Read the following letter from Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Coonoor, 16th January 1864, No. 308:—

SIR,

1. It has been brought to my notice by my Manager, from his personal knowledge of the works in Caroor Táluq, of which he was formerly Overseer, that my statement in paragraph 1 of letter printed with Government Order No, 2,757 of 22nd September 1863, was incorrect. It appears that the sanction of Rupees 1,880 in Government Order No. 2,050 of 25th July, applied to a different pair of groynes from the two commenced in 1862-63 at Vangol for the preservation of the Neeroor channel; and as my mistake between them (owing to personal ignorance of localities and confusion in a new office) has led to the transfer of that sanction for the completion of a third set of three groynes at Nunja Cadama Coorchy for preservation of the Vangol channel (originally sanctioned in G. O. No. 814 of 1st April 1863), I have the honor to request that the error may now be rectified, and a fresh allotment of Rupees 1,880 be made from the Reserve Fund for two groynes at Maravapolliem for the preservation of the Nunjapoogaloor channel. If preferred, the money may be assigned from the Budget sanction of Rupees 3,300 for alterations to Coonoor Church superseded by the Reserve sanction of Rupees 6,790 for the same purpose in Government Order No. 1,645 of 23rd June 1863. But the demands of Coimbatore District for the current year will exceed all present allotments, and it may be as well to resort to the Reserve at once if available.

No. 608. ORDER THEREON, 28th January 1864, No. 301.

1. The Reserve Fund of the current year being almost exhausted, the amount required for the two groynes at Maravapolliem, for the preservation of the Nunjapoogaloor channel, cannot be provided from that source. The appropriation to the work of Rupees 1,880 from the Budget sanction of Rupees 3,300 for improvements to the Coonoor Church—reported in the foregoing letter to be available—cannot, therefore, be avoided and is accordingly sanctioned.

2. The Superintending Engineer will report how he intends to employ the balance Rupees 1,420.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 609. Read the following letter from Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Coonoor, 21st January 1864, No. 314:—

SIR,

The accompanying Estimates, the one for a minor new work "Military," the other for alterations and improvements "Revenue," originally sanctioned by the local authorities and approved by myself, for execution from the Repair Funds of the Malabar District, having been struck out of my Appropriation Return for October on the Controller's objection that we had exceeded the sanctioning power laid down in Clause VII, paragraph 1, Chapter 24 of the Public Works Code, are herewith submitted for the sanction of Government, and for provision of the necessary funds if those already specified cannot be so appropriated.

No. 610. ORDER THEREON, 28th January 1864, No. 302.

* Rupees 177.

Improvements to the Treasury room in the Kurambanad Táluq Cutcherry Rupees 129.

1. The Estimate* for fixing 68 granite stones for the Rifle Range Practice of H. M. 102nd Regiment at Cannanore will be referred to the Military Department, and that marginally noted to the Revenue Department for consideration.

2. These Estimates should have been submitted separately by the Superintending Engineer, 7th Division, whose particular attention will be requested to paragraph 5, Section 3, Chapter XV of the Code.

3. Lieutenant-Colonel Walker has omitted to communicate the opinion of His Excellency the Commander-in-Chief on the first of the Estimates mentioned above.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 611. Read the following letter from Lieutenant-Colonel H. W. HITCHINS, R. E., Superintending Engineer, 5th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Cuddalore, 21st January 1864, No. 1,791 :—

SIR,

1. I have the honor to submit, for the consideration and orders of Government, Mr. Overseer Barringer's claim for the increased rate of travelling allowance of 40 Rupees for November 1863.

1 Memorandum from the Controller and Auditor of Public Works Accounts.

2 Mr. Paynter, Assistant Engineer, who was lately transferred to the Salem District from Kurnool arrived at Oossoor, the temporary head quarters of the Oossoor Range, on the 18th of that month and commenced to move about the different parts of the Range in company with Mr. Barringer, who has been in charge of that Range ever since Captain Clay's connection with the Department ceased.

3. In accordance with the provision contained in Section 3 of Chapter XIV of the new Code, and in obedience to the repeated orders of Government enjoining greater care to be observed when transfers of Districts or Ranges are effected, both those Officers were engaged in inspecting the several works in progress and in examining the accounts kept for them until the close of the month, and did not sign the usual Transfer Certificate till the 2nd December last.

4. As Mr. Barringer had to keep up the same marching establishment between the 19th and 30th November as he had prior to the 18th, and as he was obliged to move about the different parts of the Range, instead of confining himself to his Táluq alone, I considered him fairly entitled to the increased rate* of travelling allowance for the whole month and submitted a Bill for the same, but the Controller in his Memorandum, dated the 9th instant, No. 2,238, which is herewith sent, objects to pass the increased rate of allowance from the 19th, because Mr. Paynter has drawn the regulated allowance of his rank for the same period.

* Rupees 40.

5. I submit that Mr. Paynter under the new system is drawing a fixed rate of allowance, but in the case of Mr. Barringer, the allowance claimed is a special one granted under the Orders of Government, dated 26th August 1863, No. 2,441, and as he travelled in conjunction with the Range Officer, he is entitled to 40 Rupees for the month in question instead of up to the 18th.

No. 612. ORDER THEREON, 28th January 1864, No. 303.

As Mr. Barringer is reported to have delivered over charge of the Oossoor Range to Mr. Paynter on the 19th November 1863, he is clearly not entitled from that date to the higher rate of travelling allowance authorized* to be passed to Táluq Overseers when placed in temporary charge of Ranges.

* G. O. No. 2,441, dated 26th August 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 613. Read the following letter from Lieutenant-Colonel O. W. S. CHAMBERS, R. E., Superintending Engineer, 1st Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Waltair, 12th January 1864, No. 2,072:—

SIR,

1 Original letter.
Nos. 3,581, and 3,674, dated 4th and 12th December 1863.

1. With reference to the Orders of Government marginally noted, on the subject of the 25,000 Rupees lately granted for the road from Viziahagram to Chepurpilly and for the completion of the Petta Ghát in the Jeypore country, I beg to state for their information that the Supervisor in charge of the Vizianagram Range of this District reports to me that he is able to spend one-half of the allotment as above in the current official year, and that the Collector, whose letter is attached, proposes carrying on the work above the Ghâts under the supervision of his Junior Assistant, Lieutenant Smith.

2. I have told Mr. Carmichael that 12,500 Rupees are at his disposal for the line in the Jeypore country, and request the sanction of Government to this arrangement, which is, in my opinion, the best that can be made under existing circumstances.

3. I beg, however, that it may be distinctly understood that I am still under the impression that the money would be far better laid out on the completion of roads in the plains under suspension for lack of funds.

No. 614. ORDER THEREON. 28th January 1864, No. 304.

The arrangement reported in this letter is approved.

(Signed). CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 615. Read the following letter from Lieutenant-Colonel H. W. HITCHINS, R. E., Superintending Engineer, 5th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Cuddalore, 15th January 1864, No. 1,740:—

SIR,

Proceedings of the Board of Revenue, dated 26th November 1860, No. 5,488.
Do. dated 17th December 1860, No. 5,917.

1. With reference to the Proceedings of Government dated the 2nd December 1859, No. 2,812, I have the honor to submit herewith the papers noted in the margin, which relate to the Chuttrums proposed to be constructed both at Topoor and Adamancottah.

2. On a reference to those papers, it will be observed that the Board of Revenue after some previous correspondence were of opinion that "except repairing the old Choultry at "Topoor to the extent necessary to make it serviceable, no further step should be taken in the "matter till experience shall have indicated the direction in which traffic is likely to be mainly "developed by the opening of the Railway." The Estimate for its repairs, amounting to Rupees 1,000, was prepared by the late District Engineer and sent to the Collector in February 1861, for his countersignature and for transmission to the Deputy Chief Engineer, Southern Circle, but Captain Gahagan in his letter* to that Officer states that the papers were kept back by the Collector on the ground that it would be inexpedient to expend any money on the Chuttrum until the effect of the Railway in the traffic through Topoor had been noted. Nothing further appears to have taken place in the matter.

* Dated 22nd October 1861, No. 149.

3. The Executive Engineer in charge of the Salem Range will now be requested to cause a return of traffic &c., passing on that road to be kept for the space of two or three months, and submit it with his opinion as to whether the Choultry should be repaired or given up. If it happens that it should be kept up, the cost of its repairs can be met from the Local Funds.

4. With regard to the proposed new Choultry at Adamancottah, I beg to refer you to paragraph 15 of the late Chief Engineer's letter to the Board of Revenue, dated 15th November 1860, No. 7,020, from which it is clear that it cannot be made an exception to the rule re-affirmed in Proceedings of Government dated 6th October 1859, No. 2,380.

Vide Proceedings of the Board of Revenue, dated 26th November 1860, No. 5,482.

5. Under the circumstances above stated, I request that the Government will be pleased to authorize the Order, dated 2nd December 1859, No. 2,812, to be removed from the Unanswered Reference List.

No. 616. ORDER THEREON, 28th January 1864, No. 305.

Authority granted as requested in the last paragraph.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Read the following papers :—

No. 617. Proceedings of the Madras Government in the Military Department.

Approves of the Estimate of Rupees 350, for fitting and fixing iron bars to the windows of the Commissariat godown at Wellington, Coimbatore District. } (Here enter 23rd January 1864, No. 279.)

No. 618.

Approving of the Estimate of Rupees 696, for minor improvements to the Married Quarters at Wellington, Coimbatore District. } (Here enter 23rd January 1864, No. 278.)

No. 619. ORDER THEREON, 28th January 1864, No. 306.

1. Communicated to the Superintending Engineer, 7th Division, for information and guidance.

2. The cost of the works, which appear to be of an emergent nature, will be provided from the current year's Reserve.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 620. Read the following Telegram from Captain RYVES, Calcutta, to Colonel ORR, Secretary to Government, Public Works Department, dated 24th January 1864, No. 179 :—

Sir Charles Trevelyan tells me our Controller is expected, but that he will not supersede me. Please send definite orders whether Controller comes on explain system books Central Office or to supersede me.

No. 621. ORDER THEREON, 28th January 1864, No. 307.

The services of Lieutenant-Colonel Wilkieson and of Captain Ryves having equally been placed at the disposal of the Government of India to afford information regarding the Public Works Accounts of this Presidency or to assist in the Commission of enquiry into the system of Accounts generally in the Public Works Department, the Governor in Council is unable to pass any orders defining the relative position of these Officers, which must be left entirely with the Supreme Government.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 622. Read the following Proceedings of the Board of Revenue, dated 22nd January 1864, No. 432:—.

Read the following letter from the Collector of Nellore, dated 22nd December 1863, No. 430.

1. In October last the Superintendent of Police requested the co-operation of this Department in regard to the construction of watching huts for the Police at the Salt platforms, and forwarded to me Rupees 400 as an advance for the purpose. Since when, progress has been made in the matter and expenditure incurred from the said advance.

2. With reference however to the Proceedings of Government in the Revenue Department, datad 13th ultimo, No. 2,044, the Superintendent now applies for the refund of the said sum of Rupees 400.

3. And under these circumstances, no provision for the charge having been made in the Budget of this District, I have the honor to request the Board's sanction for the refund in question, and their instructions as to how the cost of construction of the huts in question, which Mr. Robinson in his letter to Government of the 30th October 1863, No. 2,792, states has been estimated at Rupees 860 is to be met.

Ordered to be submitted to Government, Public Works Department, with reference to the Order of Government, Revenue Department, dated 13th November 1863, No. 2,044. The Board observe that there is a provision of only 600 Rupees in the Public Works Budget of 1863-64 for repairs under the head of Salt. The amount required for the watching huts at the Salt Platform, in Nellore is Rupees 860. The Government in the Revenue Department having stated that for works of this nature, funds are provided by the Department of Public Works, the Board beg to be informed from what provision the charge in question should be met.

(A true Copy and Extract.)

(Signed) W. HUDLESTON, *Secretary.*

No. 623. ORDER THEREON, 28th January 1864, No. 308.

Communicated to the Superintending Engineer, 2nd Division, with a request that an early reply may be submitted to the Proceedings of Government No. 3,427, dated 23rd November 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 624. Read the following Endorsement of the Superintending Engineer, 8th Division, dated Semputty, 20th January 1864, No. 1,707 :—

Read the following letter from Major W. SYME, Acting Superintendent of Operations at Paumben, to Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, dated Paumben, 16th January 1864, No. 96.

SIR,

1. In reply to the information required regarding the purchase of a new Yacht for this place, and regarding the old one, I have the honor to forward a reply at last. I have had to make references to the different building yards where boats are built, and I find that labor has increased so much of late, that a boat that cost Rupees 600 a few years ago, will cost double now, and to get a boat even as good as the old one was, would cost Rupees 1,200.

2. There are no records in this office to show the present yacht's cost, she was the private property of Captain Gib, the Officer in charge of Operation, who sold her, I believe, to Government for Rupees 400 when he left.

3. With reference to paragraph 2 of Colonel Orr's letter, the means of moving about here now are, a small canoe and an old ship's boat, which has a small awning to it, affords very little protection to the Officer, as he has to be out nearly all day on the sea; by having a yacht with a small cabin when the blasting is not going on he could retire into it and not be exposed all day, and carry on his office work, instead of at night, which he would have to do when he came home.

4. I have not forwarded Plans and Estimates as they amount to Rupees 4,000, which is out of the question; there is a splendid boat now for sale at Tellicherry, the property of some Officers at Cannanore, who bought her from Captain Drever, she has a double set of sails, and is quite a new boat, cost building Rupees 4,000; if Government would not consider Rupees 1,400 too much to lay out on a boat for this place she can be bought for that sum. I would propose paying for her out of the maintenance allowance allowed for this place; there has been very little work done this year, consequently there is more money in hand than former years, and the balance could be paid from next official year. Should Government agree to the purchase of this boat, I should like to have the answer by telegraph, as other parties wish to purchase her, and a boat like this could be used to bring any stones that may be required for this place, and would save a great deal in freight, and delay in getting what is required, as every piece of wood and bamboos has to be sent for to the different islands.

Submitted for the information of Government, with reference to Memorandum No. —— of 20th November 1863.

(Signed) F. J. MOBERLY, Captain, R. E.,
Superintending Engineer, 8th Division.

No. 625. ORDER THEREON, 28th January 1864, No. 309.

6th January 1864, No. 33.
15th do. " " 157.

1. The Government will defer passing orders on this letter until furnished with the Superintending Engineer's replies to the Orders noted in the margin.

2. Captain Moberly will be requested to return the Memorandum from the Government Office, dated 20th November 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 626. Read the following letter from J. L. LUSHINGTON, Esq., Acting Deputy Auditor and Accountant General, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Fort Saint George, 28th January 1864, No. 349:—

SIR,

RAILWAYS.
Salary of the Consulting Engineer and his Establishment.
Purchase money of land.

MADRAS IRRIGATION AND CANAL COMPANY.
Salary of the Consulting Engineer and his Establishment.
Deputy Collector and his do.
Surveyor, his Establishment in Vellore.
Purchase money of land.

1. The sum appropriated for the Public Works of the Madras Presidency in the ensuing official year being Rupees 64 lakhs, as per Circular No. 63, dated Fort William, 28th December 1863, Public Works Department, I have the honor to enquire if the expenses of the items marginally noted are to be met out of this amount.

2. As this information is required for the correct preparation of the Estimate of Cash Requirements for 1864-65, which should be forwarded to the Government of India by the first Steamer in next month, I have to request that you will be good enough to favor me with an early reply to this letter.

No. 627. ORDER THEREON, 28th January 1864, No. 310.

The Accountant General will be informed that none of the items referred in this letter are chargeable against the allotments of 64 lacs for Public Works in this Presidency for the ensuing year, but will be separately provided for in the Budget* of the Consulting Engineers for Railways and for the Madras Irrigation and Canal Company.

* Under the head "State Fund."

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 628. Read the following letter from Lieutenant-Colonel A. C. PEARS, Postmaster General, Madras, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, Fort Saint George, dated Madras, 20th January 1864, No. 6,167:—

SIR,

I have the honor to forward for information copy of a letter to my address from the Director General of the Post Offices in India, sanctioning the construction of a building for the purposes of the Post Office at Poothanoor as per accompanying Plan and Estimate, amounting to Rupees 1,940, by the Assistant Engineer Coimbatore, and request that Government may be pleased to pass orders for provision being made for the project by the Superintending Engineer, 7th Division, in the Public Works Budget Estimate for the ensuing official year 1864-65, and for the work being undertaken as soon as possible thereafter.

From A. M. MONTEATH, Esq., in charge of the Office of Director General of the Post Offices in India, to the Postmaster General, Madras, dated Calcutta, 31st December 1863, No. 2,361.

SIR,

1. In reply to your communication No. 232, dated the 23rd October last, I beg to convey my approval of the Plan* and Estimate* therewith submitted for a Post Office building at Poothanoor.

* Herewith returned.

2. The requisite steps should be taken for the inclusion of the project in the Budget Estimate of the Department Public Works.

(True Copy.)

(Signed) A. C. PEARS, Lieut.-Colonel,
Postmaster General.

No. 629. ORDER THEREON, 29th January 1864, No. 311.

The Public Works Budget for 1864-65 having been closed on the 10th instant, the Estimate submitted with this letter cannot be entered. The Superintending Engineer, 7th Division, will however be requested to submit an application after the 1st May next for a special grant to admit of the prosecution of the work.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 630. Read the following letter from Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 16th January 1864, No. 4,545.

SIR,

1. With reference to your letter No. 227, dated 9th September 1863, and my reply thereto of the 13th October 1863, No. 2,909, I have the honor to submit an Estimate amounting to Rupees 2,500 for the thorough renewal of the Public Works Store-rooms at Chepauk, providing for the entire reformation of the terraced roof, repairs of walls, flooring, &c., and for painting the doors, joists and beams. The present value of the building is reported to be Rupees 3,650.

1 Abstract Estimate.
1 Specification.

2. As the work seems to come rather under the head of an Improvement than a Repair, I request that sanction may be granted for its entry in the Budget 1864-65, or if too late that it may be sanctioned out of the Reserve Fund of that year, provided that you consider the building worthy of so large an outlay.

No. 631. ORDER THEREON, 29th January 1864, No. 312.

As the work referred to in this letter cannot be provided for in the Budget for 1864-65, the Superintending Engineer, 4th Division, is requested to re-submit the Estimate after the 1st May next.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 632. Read the following letter from Lieutenant-Colonel C. V. WILKIESON, R. E., Controller and Auditor of Public Works Accounts, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 22nd January 1864, No. 2,333 :—

SIR,

1 Bill.
1 Original letter, dated 15th January 1864.
1 Letter from the late Colonel Ouchterlony, dated 7th July 1862.

Building a timber bridge at the approaches of the single arched masonry bridge at Eachiunary in the District of Coimbatore, Rupees 1,071-8-6.

1. Adverting to the Orders of Government dated 30th April 1863, No. 1,094, I have the honor to re-submit the enclosed Bill for the work noted in the margin together with an explanatory letter dated 15th instant, No. 3, received from the Superintending Engineer, 7th Division, regarding the urgency of the work.

2. An original letter in the hand-writing of Lieutenant-Colonel J. Ouchterlony, Deputy Chief Engineer, Southern Circle, recommending the Estimates for this and another work, found amongst the papers connected with the subject, is herewith submitted for the information of Government with reference to the 3rd paragraph of Colonel Walker's present letter. It is probable that this letter was not then despatched because the works referred to were known to have been completed.

3. The name of the party by whom the submission of the Bill in question was] delayed for upwards of seven months is mentioned in my letter to Government dated 2nd May 1863, No. 466.

No. 633. ORDER THEREON, 29th January 1864, No. 313.

Under the explanation afforded, the Governor in Council sanctions the Bills submitted with this letter amounting to Rupees 1,071-8-6.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 634. Read the following letter from Lieutenant-Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 7th January 1864, No. 4,402 :—

SIR,

1 Statement.

1. Among the old Unanswered References in this Office I find an Extract Minutes of Consultation of Government, No. 2,260, dated 4th December 1857, on the subject of the Pootulput and Kircumbady road in the District of North Arcot.

2. The explanation called for in paragraph 3 of the Order above quoted appears to have been received by the Chief Engineer in March 1858, but never to have been forwarded.

3. It appears that out of the sum, Rupees 15,879, granted in Extract Minutes of Consultation, No. 310, dated 21st September 1852, Rupees 3,057 were transferred, under permission granted in Extract Minutes of Consultation, No. 389, dated 21st October 1853, to that portion of Trunk Road No. XI which connects Chittoor with Pootulput. Out of the balance,

Rupees 12,822, no less a sum than Rupees 8,558 was expended in the days when the works were in the hands of the Collector, and only the remainder Rupees 4,264 by this Department; the Officer in charge, Captain Barber, having at the time reported the insufficiency of that sum to complete the road.

4. The Estimate Rupees 21,426 sanctioned in Extract Minutes of Consultation, No. 91, dated 24th February 1855, for building five bridges on the road in question between the 110th and 128th mile was never acted on further than in the collection of a few materials as subjoined :—

	Bricks.	Cubic Yards rough stone.	Old cut stone.
For bridge at Thanapully river in 110th mile.	20,000	25	...
Do. at Pankal tanks surplus stream in 115th mile	...	100	50
Do. at Soovaruamooky river at Lootoovunka in 120th mile ...	...	...	...
Do. at hill stream near Kulrodapully in 123rd mile	...	15	...
Do. at Biranji Malapam stream in 129th mile (bricks are at 128th mile)	10,000	...	...
Do. at Alepore Wunka in 142nd mile.	7,000	...	...

5. It will thus be seen that only 12,822 Rupees had been expended on the road at the time of Government passing their order now under reply, and not Rupees 37,305 as they then had reason to suppose.

6. As regards the present state of the road it is thus described by the Native executive agent, though not precisely in his own words: " It is not metalled with jelly and gravel like " other Trunk Roads, but has been improved by the annual maintenance allowance, the portions " where the soil is worst being gravelled. From the 110th mile (the commencement) to the 130th " it is passable for carts in wet weather; thence from the 131st to the 135th mile it has had gravel " laid on but of so earthy a character that it turns to mud in the rain; thence for two miles the road " is formed in embankment across paddy fields, and the earth is coated with sand (gravel being " three miles distant), and from that point to the end of the road, or from Triputty to Kircumbady " it goes over red, hard stony soil easily passable for carts, though here and there are muddy " portions, and round stones crop up above the surface of the road."

7. A detailed Statement of the condition of each mile of road is enclosed.

Vide page 59 of Appendix to Budget for 1863-64.

8. The present maintenance allowance, Rupees 3,850 for 38½ miles, is considered sufficient. Captain Chrystie, Executive Engineer North Arcot, on a recent visit to the Chendragherry Range reported on this road, that out of this allowance " the Sub-Engineer has " metalled ten miles with thin coats of gravel, and has constructed two large sized brick in chunam " tunnels and four road dams," and adds that he found the " road in good order for one of its class."

9. The traffic is about 150 carts per diem. Ere long I hope to see this road, and if I consider it necessary, I will have a special Estimate prepared for its due completion.

10. Permission is requested however to strike off the Government Order under notice from my Unanswered Reference List.

No. 635. ORDER THEREON, 29th January 1864, No. 314.

Under the explanation afforded in this letter, the Government permits the removal from the List of Unanswered References, of their Orders dated 4th December 1857, No. 2,260, relative to the road from Pootulput to Kircumbady in the District of North Arcot.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 633. Read the following:—

No. 2,266.

List of Unanswered References for the half year ending 30th September 1863.

Government Order.		Subject of requisition.	Remarks.
Date.	No.		
1863. 30th April.	1,094	Calls for explanation of the delay in the submission of the Bill for building a timber bridge at the approaches of bridge at Echinary, and as to the party who is responsible for this neglect, also for a report of the urgency of the work.	Third call made on the Superintending Engineer, 7th Division, for explanation of the reason of urgency, on the 9th January 1864. The name of the party was reported in letter No. 466, dated 2nd May 1863.
20th May.	1,276	Requests to report on the submission of the Upper Godavery Bills for the expenditure incurred on works performed up to 30th April 1863, and remaining unaccounted for whether the accounts of that District have been fully adjusted.	Bills are still being received for the expenditure on the Upper Godavery works, which when fully accounted for, will be reported upon specially.
15th July.	1,918	Requests explanation on the several points in connection with the unadjusted expenditure of previous years.	Was engaged until recently in examination of the balances with the books of the Accountant General, who will report directly to Government. The irrecoverable balances of each District will be reported upon separately. *Vide* Report to Government, dated 18th December 1863, No. 2,129.
27th July.	2,079	Requests to fill up the first portion of the Estimate of Local Fund Receipts and Disbursements.	Not one Return as yet received from the Superintending Engineers. Reminder sent, 15th January 1864.
3rd August.	3	Directs to submit the Statement of the lands acquired by Uncovenanted Servants with the Annual Progress Report of Department Public Works.	Reminders sent to the Superintending Engineers, 2nd, 3rd, 6th and 7th Divisons, on the 7th January 1864.

(Signed) C. V. WILKIESON, Lieut.-Colonel, R. E.,
Controller and Auditor of P. W. Accounts.

A List of Returns which are required to be submitted to Government.

Monthly.

Part I. Progress Report of works in the Districts of the Madras Presidency, arranged under the several Budget heads under "New Works."

Part II. Do. do. do. do. under "Repairs."

Statement of the particulars of works in progress, the Estimates of which exceed 20,000 Rupees.

Statement of Appropriation of Funds under the several Budget heads.

Part I. Statement of expenditure upon Public Works and of the cash balances on the last day of the month with the Public Works Officers.

Part II. Statement of expenditure in the Public Works Department accounted for by the submission of Bills or otherwise.

Quarterly.

Statement of sums drawn for Public Works in each District.

Statement of Bills passed on account of contingent charges for machinery.

Half Yearly.

Statement of Unanswered References from Government.

Annually.

Account of Appropriation of Funds for and outlay on Public Works, under the several Budget heads.

Budget of Salaries, Establishments, &c., of the Public Works Department.

Statement of works of Public Utility.

Statement of Remunerative works.

Statement of lands acquired by Uncovenanted Servants in the Department Public Works.

Estimate of Local Fund Receipts and Expenditure.

Madras,
15th January 1864.

(Signed) C. V. WILKIESON, Lieut.-Colonel, R. E.,
Controller and Auditor of P. W. Accounts.

No. 637. ORDER THEREON, 29th January 1864, No. 315.

1. The above List contains the Orders of Government of more than three months' standing remaining unanswered by the Controller and Auditor of Public Works Accounts for the half year ending 30th September 1863.

2. The Orders mentioned below, not having been replied to, should have been included in the List. The Controller will see that they are entered in future Returns :—

No. 513, 26th February 1863. To submit a draft of Rules to govern the work of the Department of Accounts.

No. 2,287, 13th August 1863. To furnish full explanation of the cause of delay in submitting the Progress Report for the year 1862-63.

3. In G. O. dated 27th July 1863, No. 2,079, the Controller was requested to submit on or before the 1st instant, an Estimate of the Local Fund Receipts for the year ending 30th April 1865. Colonel Wilkieson reports that none of the local Officers has yet furnished the information required to enable him to comply with this requisition. The particular attention of the Superintending Engineers will now be directed to the subject, and they will be requested to submit *direct* to Government without further delay, the Statements connected with Local Fund Disbursements in their respective Divisions as required in the Orders quoted above.

4. The Statement of periodical Returns appended to the List above recorded, not having been compiled in such a form as to enable Government to distinguish between the Returns already submitted and those still due, the Officers marginally noted, will be requested to adopt the subjoined form in the preparation of future Statements.

The Consulting Engineer Irrigation and Canal Company.
,, Controller and Auditor of Public Works Accounts.
,, Superintending Engineers.

FORM.

Orders of Government calling for the Return.		Subject.	The date on which the Return is due.	For what period and when the last Return was submitted.	Remarks.
Annually ..					
Half yearly ...					
Quarterly ...					
Monthly ...					
Fortnightly ...					

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 638. Read the following letter from J. L. LUSHINGTON, Esq., Acting Accountant General, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Fort Saint George, 28th January 1864, No. 350:—

SIR,

The Government of India having in their Financial Resolution, No. 107, dated the 8th instant, sanctioned a sum of Rupees 40,679 on account of Travellers' Bungalows in the Madras Presidency under Public Works, I have the honor to request, with a view to procuring the adjustment of the advances now outstanding in the Civil Department on this account, you will instruct the Auditor and Controller of Public Works Accounts to audit the Bills that may be submitted by the Collectors for the Establishments maintained in the several Travellers' Bungalows. A similar course will have to be pursued with reference to the future payments that may be made by the Collectors in the current year, regarding which instructions will be issued to Treasury Officers on receipt of the Government Order to this reference.

No. 639. ORDER THEREON, 29th January 1864, No. 316.

1. Communicated to the Controller and Auditor of Public Works Accounts, who will arrange for the audit of the Bills and payments referred to by the Accountant General.

2. The Financial Resolution No. 107, dated 8th instant, has not been received in this Office.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 640. Read the following letter from Captain H. L. PRENDERGAST, R. E., Officiating Controller and Auditor of Public Works Accounts, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Madras, 27th January 1864, No. 2,367:—

SIR,

1. I beg to bring to notice that, in the Trichinopoly and Godavery Districts, the excesses shown in the margin, have taken place, under the head "Minor New Works," up to August 1863, and I have requested the Superintending Engineers concerned, to lay the matter before Government. In the absence of any instructions from Government, on the subject of excesses under this head of the Budget, I am at a loss how to deal with the Appropriation Returns.

"Minor New Works."

	Amount allowed.	Amount appropriated up to August 1863.
	RS.	RS.
Godavery	3,000	4,642*
Trichinopoly	3,000	3,188*
Excess.		
Rupees ..	1,642	
Do. ..	188	

2. So far as repairs are concerned, a reference was made in paragraphs 3 and 4 of letter from this Office to Government, No. 2,293, dated 18th January 1864, G. O. No. 263, dated 23rd January 1864, and it has been ruled that excess appropriations on repairs may be included in the Appropriation Returns submitted to Government; but I beg to be instructed whether this ruling is also applicable to "Minor New Works" sanctioned from the "Reserve," or if not, what action is to be taken by this Department, in the matter.

G. O. No. 1,662, dated 25th June 1863.

No. 641. ORDER THEREON, 29th January 1864, No. 317.

1. The Superintending Engineers, 1st and 6th Divisions, will be requested to explain the circumstances under which they have respectively exceeded the allotments for Minor New Works in the Districts marginally noted, and to report from what source they would propose to meet the excesses referred to in this letter.

Godavery.
Trichinopoly.

2. The attention of the Superintending Engineers will be called to the necessity for restricting their expenditure within the amount assigned, and they will be informed that the allotment for each District on account of Minor New Works is on no condition to be exceeded without the previous sanction of Government.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 642. Read the following Proceedings of the Madras Government in the Judicial Department:—

Communicating letter from the Inspector General of Jails forwarding copy of his notes on the Tanjore Prison. } (Here enter 22nd January 1864, No. 91.)

No. 643. ORDER THEREON, 29th January 1864, No. 318.

Communicated to the Superintending Engineer, 6th Division.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 644. Read the following Proceedings of the Madras Government in the Public Department:—

Requesting the preparation, in communication with the Superintendent of the Government Museum, of Plan and Estimate for the erection of a Bungalow, for the Superintendent, in the Museum compound, Presidency District, and stating that the cost should not exceed Rupees 12,000. } (Here enter 21st January 1864, No. 54.)

No. 645. ORDER THEREON, 29th January 1864, No. 319.

Communicated to the Superintending Engineer, 4th Division, for information and guidance.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 646. Read the following Proceedings of the Madras Government in the Military Department:—

Approving, for entry in the Budget of 1864-65, of the Estimate of Rupees 1,000 for purchasing a piece of ground adjoining the Artillery Barracks at Trichinopoly, and adapting it for a Soldiers' Garden for the use of the Battery of Artillery. } (Here enter 23rd January 1864, No. 290.)

No. 647. ORDER THEREON, 29th January 1864, No. 320.

Communicated to the Superintending Engineer, 6th Division, for information and guidance.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 648. Read the following letter from Lieutenant-Colonel J. P. BEADLE, R. E., Officiating Secretary to the Government of India, Public Works Department, to the Secretary to the Government of Madras, in the Public Works Department, dated Fort William, 21st January 1864, No. 320:—

SIR,

1. I am instructed by His Excellency the Governor General in Council to enquire, with reference to your letter No. 3,840, dated 24th December 1863, whether there is no Officer in the service of Government on the authorized Public Works Establishment, who is competent to fill the appointment of Consulting Engineer to the Government of Madras for the works of the Madras Irrigation and Canal Company.

2. Colonel Ludlow having retired from the Military service on the 31st August 1863, cannot, without special re-appointment, continue to hold the position Departmentally, as a Civilian, which he held as an Officer of the Engineer Corps, prior to his retirement from the Military service of the Government.

3. In the Public Works Establishments, more especially under the Government of India, the consolidated Civil salary which has been adopted as the equivalent of Rupees 1,000 Staff allowance is Rupees 1,400 per mensem, but under the expression of opinion that the Governor of Madras in Council considers that Rupees 1,500 per mensem would be a fair remuneration to a Civilian, holding the appointment now under consideration, the Government of India would make no difficulty in confirming that salary, were the question simply one of salary.

4. But while the Governor General in Council does not desire in any way to interfere with appointments made by the Government of Madras, there are such obvious objections to continuing as a matter of course, or on any, but very special grounds, the employment of a retired Officer of Engineers in the Department of Public Works, and in the appointment in which he was serving previously to his retirement, that the Government of India is constrained to ask for further explanation of the circumstances which are considered to render Colonel Ludlow's continued employment necessary.

5. Meanwhile, however, the Governor General in Council authorizes the payment of the salary of Rupees 1,500, less the monthly pension of Rupees 372-11-3, to Colonel Ludlow, temporarily, commencing with September 1863.

No. 649. ORDER THEREON, 29th January 1864, No. 321.

Communicated to the Civil Paymaster with reference to his letter No. 1,616, dated 12th December 1863.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 650. Read the following letter from Lieutenant-Colonel O. W. S. CHAMBERS, R. E., Superintending Engineer, 1st Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Waltair, 18th January 1864, No. 2,090:—

SIR,

1. I do myself the honor of bringing to the notice of Government that Captain Beatty, R. E., Executive Engineer, posted to the Vizagapatam District, relieved Captain Molony of the current duties of the Vizagapatam Range Office on the 19th of the month of November, and that since that date the latter Officer has been engaged in pointing out to the former the several works in progress and in furnishing accounts of the expenditure incurred up to the date of his relief, which were much in arrears owing to the protracted illness of the Range Accountant, an individual suffering from berri-berri and jungle fever contracted on duty.

1 Letter.

2. The Comptroller and Auditor of Public Works Accounts, whose original letter* is enclosed, objects to pass the salary of the relieved Officer claimed under the rules laid down in paragraph 14, Section 2, Chapter XV of the Bengal Code, and I have the honor to request that, as a special case, these rules† which apparently provide for the salaries of the Officers transferred from one charge to another, may be extended so as to apply to the case under reference, as the detention of Captain Molony in this Department has been unavoidable.

* No. 2,229 of 9th January 1864.

† Paragraph 14, Section 2, Chapter XV, Bengal Code.

3. The final relief of Captain Molony will probably be effected on or about the 20th instant.

No. 651. ORDER THEREON, 29th January 1864, No. 322.

As a special case the Governor in Council will authorize the Controller to pass to Captain Molony his salary up to the end of November 1863, the month in which he was relieved by Captain Beatty, but declines to entertain any claim to Departmental pay to a later period.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Read again letter from the Superintending Engineer, 5th Division, recorded in the Proceedings (Miscellaneous) dated 26th January 1864.

Read also the following letter from Lieutenant-Colonel H. W. HITCHINS, R. E., Superintending Engineer, 5th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Cuddalore, 23rd January 1864, No. 1,805:—

SIR,

1 Copy of correspondence.
1 Supplemental Estimate of funds for February 1864.

1. I have the honor to submit herewith a supplemental Estimate of funds for Bangalore for the ensuing month, from which it will be seen that a sum of Rupees 1,600 is required for making certain necessary alterations, &c., in the Post Office at that place, which appear to have been sanctioned by the Director General of the Post Offices of India.

2. It will be observed from the accompanying copy of the correspondence that the above amount has been authorized to be transferred from the current year's Budget of the Post Office Department to that of the Public Works Department, but the Deputy Auditor and Accountant General in his letter to Postmaster General, dated 9th instant, No. 3,068, states that it will be placed at my disposal on my submitting to you an Estimate for it.

3. I request therefore that you will be good enough to do the needful in the matter, to enable me to issue the necessary instructions for the early commencement of the work in question.

No. 652. ORDER THEREON, 29th January 1864, No. 323.

Ordered that the foregoing letter together with its enclosures be communicated to the Controller and Auditor of Public Works Accounts, with an intimation that the sum of Rupees 1,600, transferred from the Postal Budget, is to be considered as an addition to the regular allotment for the current year.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 653. Read the following Telegram from Colonel CHAMBERS, Vizianagram, to Colonel ORR, Madras, dated 26th January 1864:—

Duplicate. Your Telegram unintelligible. Magnay is at Berhampore, and he might be obtained from the C-in-C. Molony at Waltair; no one else at hand. If you think either the right man please re-appoint him to Department, or ask him what salary from the Estimate will content him.

No. 654. ORDER THEREON, 29th January 1864, No. 324.

Ordered that the following Telegram be sent:—

" *To Colonel Chambers, Waltair viâ Vizagapatam.*

" Communicate direct with Magnay and enquire if he will take charge of the work on his former rate of salary. Report result, that application may be made to Commander-in-Chief."

(Signed) CHARLES, A. R. Colonel, R. E.,
Secretary to Government.

No. 655. Read the following letter from Captain F. J. MOBERLY, R. E., Superintending Engineer, 8th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Chuttraputty, 18th January 1864, No. 1,689 :—

SIR,

1. Referring to Government Order No. 103 of the 12th instant, I have the honor to request that Government will be pleased to sanction the temporary entertainment of Ramasawmy Asari formerly a Sub-Overseer and Táluq Maistry in Ambasamudram.

2. As the current and four succeeding months are the only ones in which work can be carried on in the irrigated parts of Ambasamudram, I trust that the Government will be pleased to pass his salary from the date of Mr. Telford's resignation, as he was ordered to relieve him and push on with the execution of the works.

No. 656. ORDER THEREON, 29th January 1864, No. 325.

The Superintending Engineer, 8th Division, will be informed that, under the orders marginally noted, the sanction of Government to the entertainment of late Sub-Overseer Ramasawmy Asari is unnecessary.

No. 80, dated 9th January 1864.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 657. Proceedings of the Madras Government, dated 29th January 1864, No. 326 :—

1. Resolved that application be made to His Excellency the Commander-in Chief, through the Military Department, for the services of Captain J. Magnay, Staff Corps, to be placed at the disposal of this Department, as a temporary measure, for employment under the orders of the Superintending Engineer, 1st Division, in the supervision of the Surada road in the Ganjam District.

2. While thus employed, Captain Magnay will receive a Staff salary of Rupees 300 permensem to be charged against the Estimate for the work.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.